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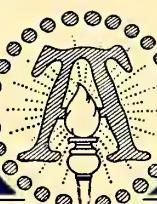
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APRIL 26, 1924.

SUBSCRIPTION WITH
DIARY 20/- PER ANNUM.
SINGLE COPIES 9d.

Vol. C.

"Torch" Brand COMPRESSED TABLETS

Trade.  Mark

For the Discriminating Pharmacist

"Torch" Brand Compressed Tablets are of a high standard of excellence in every respect and win the appreciation of critical customers. All the ingredients used are of the "A. & H." standard of quality and purity; the tablets are accurate in dosage, constant in composition and have that fine clean finish which distinguishes tablets of the highest class. Those intended for general therapeutic effect disintegrate readily, while those which are taken for their local action on the mouth or throat dissolve slowly and evenly.

On the P.A.T.A.

	Price per 25		Price per 100		Price per 25		Price per 100	
	Per doz.	each	Per doz.	each	Per doz.	each	Per doz.	each
Aloin Compound ...	4/-	7d.	11/-	1/6			5/-	9d.
Ammoniated Quinine drm. 1/2	5/-	9d.	15/-	2/3			5/9	10d.
Ammoniated Quinine with Cinnamon ...	7/-	1/-	21/-	3/-			6/6	1/-
Aspirin ... gr. 5	4/6	9d.	12/-	2/-				
Calcium Lactate ... gr. 5	4/6	9d.	10/6	1/9				
Calomel ... gr. 1/2	—	—	5/6	10d.				
" ... gr. 1	—	—	5/6	10d.				
Cascara Extract ... gr. 2	3/9	6d.	9/6	1/3				
" ... gr. 3	5/-	9d.	13/-	2-				
" ... gr. 4	5/6	10d.	15/-	2/3				
" ... gr. 5	6/6	1/-	17/-	2/6				
Chlorate of Potash tins of 40	3/6	6d.	—	—				
Chlorate of Potash & Borax, B.P.C. ... tins of 40	3/6	6d.	—	—				
Eastons Syrup ... drm. 1/2	4/9	9d.	13/6	2/3				
Formaldehyde, B.P.C. ... drm. 1	6/-	1/-	18/-	3/-				
Formaldehyde, B.P.C. bottles of 50	7/-	1/-	—	—				
Formaldehyde and Menthol bottles of 50	7/-	1/-	—	—				
Grey Powder ... gr. 1/2								
" ... gr. 1								
" ... gr. 2								
Guaiacum Compound (Guaiacum and Sulphur, a.a. gr. 2 1/2)								
Laxative Vegetable Compound ...								
Phenacetin Compound, B.P.C. ...								
Phenacetin Compound, B.P.C. ...								
Phenazone (Antipyrin), B.P.C. ...								
Phenolphthalein (chocolate base) ...								
Quinine Sulphate ... gr. 1								
" ... gr. 2								
" ... gr. 3								
" ... gr. 4								
" ... gr. 5								
Soda Mints ...								
Sodium Citrate ... gr. 1								
" ... gr. 2								
" ... gr. 3								
" ... gr. 4								
" ... gr. 5								
Sulphonal ... gr. 5								

Write for full list and special terms for quantities.

ALLEN & HANBURY'S Ltd
Bethnal Green,
LONDON, E.2.

Estd 1715.

WRIGHT, LAYMAN & UMNEY, LTD.

draw attention to Effervescent Preparations.

Wright's Effervescent Fruit Saline.

An alluring display of luscious fruits, in their natural colours, is artistically represented on labels and cartons.

The Saline is in small grains, pours freely from the bottle, and gives prolonged effervescence. It is a product of the highest standard of excellence.

Minimum Retail Price **1/9** per bottle.

Per dozen **14/6**

Sudden spells of mild weather in the springtime cause immediate demand for effervescent preparations

The following are a few selections from our Illustrated Catalogue. Many styles of label and carton are available.

Universal Grape Saline
Effervescent Saline
Effervescent Universal Saline
Granular Effervescent Citrate of Magnesia
Effervescent Health Salt
Invigorating Health Salt
Hygeia Salt
Phosphorised Liver Salt
Effervescent Liver Saline
Effervescent Sulphur Saline
Artificial Carlsbad Salts
&c., &c., &c.

Customer's name and address printed on labels without charge, for usual quantities.

It is a sound policy to have the goods in stock, ready for instant display.

Wright's Liver Granules.

The Sparkling Morning Draught.

However efficacious they may be, the brackish flavour of the aperient mineral salts is objectionable to everybody.

It is hardly possible to devise a more agreeable method of administration than is offered in
WRIGHT'S LIVER GRANULES.
The flavour is both pleasing and refreshing.

The design of the lever lid tin is quiet but attractive, with convincing letterpress.

Minimum Retail Price **8½d.**

Per dozen **6/-**

WRIGHT, LAYMAN & UMNEY, LTD.
SOUTHWARK STREET LONDON, S.E.1

MORSON

*To all interested in
the Fine Chemical
Industry.*

1821 — 1924

British Empire Exhibition

VISITORS to the British Empire Exhibition will appreciate that a display of chemicals in show-bottles has definite limitations. The most obvious is that the technical sightseer gains no adequate idea of the relative importance of the manufactured product among British-made chemicals, and comparatively unimportant products may appear to have a significance wholly out of proportion to their practical utility in the industrial world.

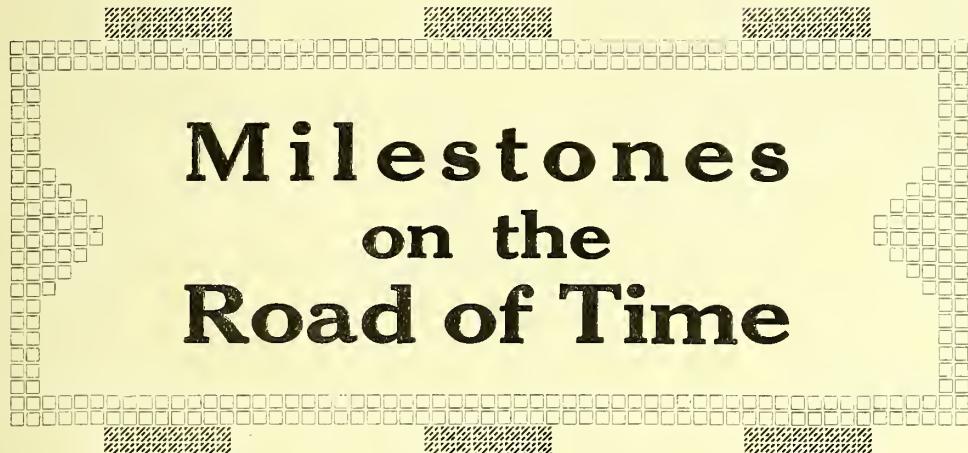
At an Exhibition open to the public details regarding methods of production and purification, which are of great interest to the trade, must be dealt with only in a general way, or else entirely omitted. Instead, therefore, of making an exhibit of a few selected products at Wembley, Thomas Morson & Son, Ltd., are extending an invitation to overseas visitors to inspect their works at Ponders End, Middlesex. There they will see "Morson" products in actual process of manufacture. They will see the conversion of raw materials to finished products, and be able to appreciate the various stages which lead to the final degree of purity and reliability of Morson chemicals.

The various types of plant and facilities for production provide evidence of a fundamental knowledge of chemical and engineering processes by which means alone the large scale production of fine chemicals of the requisite appearance and purity is rendered possible.

Industrially, chemists will learn how problems that appear almost insurmountable may be elucidated, and how new ideas may be translated into practice.

An amazing series of products outside the scope of dictionary and catalogue are made in these works, and the story of their technical application would fill a volume of the romance of industry.

In the museum there will be housed a more varied and complete collection of fine chemicals than is possible in any exhibition. Unique specimens of raw materials and natural products will also form part of this collection which will, one may safely prophesy, constitute a lasting memorial to the progressive spirit of this enterprising house.



Milestones on the Road of Time

Thomas Morson & Son, Ltd.
Fine Chemical Manufacturers

Summerfield Chemical Works
Ponders End
Middlesex

Head Office
47 Gray's Inn Road
London, W.C.1



Born 1800.

Mr. THOMAS N. R. MORSON, Founder of the Business.
A Founder of the Pharmaceutical Society of Great Britain 1841. President 1848 and 1859.
A Founder of the Chemical Society 1841.

Died 1874

Milestones in Industry

JUST as in the lifetime of everyone there are clearly marked stages at which the traveller may pause, if he be of philosophic disposition, to review the past and contemplate the future, so in the history of every concern of long standing there are mile-stones which mark the road of progress—"Milestones on the Road of Time."

The quaint portrait which appears on the opposite page portrays Mr. T. N. R. Morson at a period when he had a European reputation as a scientific manufacturing chemist. This reputation was built up from the research work commenced in a small Apothecaries' Shop in Fleet Market, where he established the business in 1821. This small

*Account Book of the West Egyptian Museum
Sold for acc't of Mr. T. N. R. Morson*

1857				
Aug 11	By 1 West Egyptian Specim	Sold		
	as Gauges			
(10)	2 5. 3. 3. 2 to 2 19	2 23	4 0	
	3. " m 343. 57		85. 15	
	Debitor 2 6. 6		2. 2. 11	
				83. 12. 1
	Stamp		— 1. 1	
	" Commision		— 17. 3	
				— 18. 9

Facsimile of Opium Order.

The historic House of Morson in the course of its long and honourable existence of over a hundred years has marked down many a milestone, and probably none provides a more fascinating appeal to pause and reflect than the present occasion. These thoughts arise from the announcement that the firm are just completing what is rather inappropriately termed "The Museum." As a matter of fact, it partakes of the character of a permanent exhibit, a monument of the past and a tribute to the future.

This beautiful hall, when completed, will contain a collection of Fine Chemicals almost unique in the annals of industry. It was certainly a brilliant idea to celebrate the centenary of the House by erecting a Centenary Hall. It constitutes a tribute to the memory of the three principals—T. N. R. Morson, Thomas Morson, and T. Pierre Morson—who controlled the destiny of the House during the past century.

pharmacy proved to be the nucleus of the present factory where some thousands of Fine Chemicals are produced annually. He was the pioneer Fine Chemical Manufacturer of his day, and was the first to produce on a commercial scale Morphine, Quinine Sulphate and Pepsin in England.

The remarkable advance in the science of Chemistry about this time found rapid application in Morson's Laboratories, with the result that it was necessary in 1825 to have more room to devote to the manufacture of the growing list of chemicals and alkaloids. Premises in Southampton Row were taken, and it was here that the process for the manufacture of Kreosote from Wood Tar was worked out. Next, a factory was erected at Hornsey Rise, where Kreosote was manufactured on a large scale for the first time in England. In the course of time these works were outgrown, and

a large factory was erected at Homerton. Finally, to meet the needs of a rapidly developing business, new works were erected on the present site at Ponders End, Middlesex.

Here we pause to turn again to the personnel of the business. It is only natural that a great chemical tradition should be passed on from generation to generation in a family business of this type, but it is rare in these days to find such tradition brilliantly maintained

by both the administrative and the factory staff. A considerable proportion of the employees have a large number of years of service to their credit. It is no uncommon sight to see the son working in true apprentice fashion under the tutelage of his father. The craftsmanship of the past is thus being linked with modern scientific methods, with the result that the present day youth receives an ideal training in the art of Fine Chemical Manufacture.



Morson's First Apprentice.

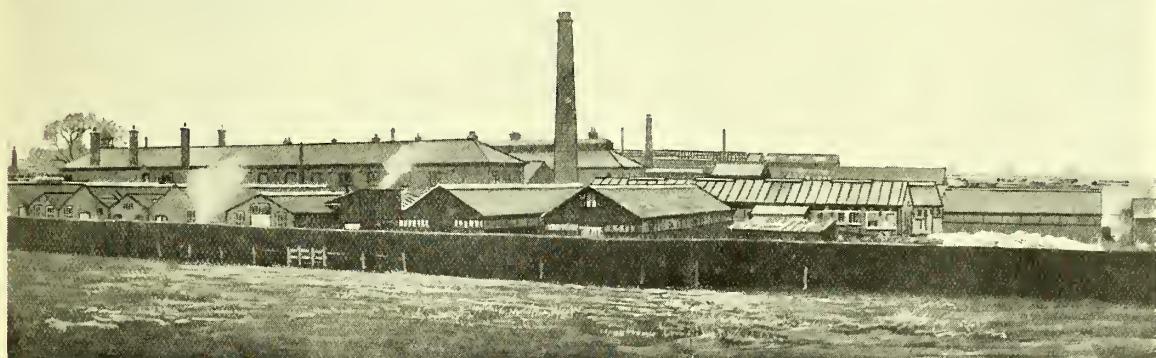
Summerfield Works, Ponders End

THESE Works occupy about eight acres of ground, and it is of interest to note that the actual space covered by factory operations has been more than trebled since 1914.

One is, at the outset, impressed by the inter-dependence of the chemist and the engineer in these Works. The explanation is that modern method production of any Fine Chemical economically, and on a large scale, demands the greatest skill in the selection of plant of a suitable type.

The versatility of the firm as manufacturers of Fine Chemicals may be judged from the fact that the number of articles produced in the course of each year averages 2,000, the weight of which varies from

It will be readily appreciated that an enormous number of units of plant must always be promptly available to cater for the various demands. The plant is entirely up-to-date, the major portion being made on the premises by a skilled staff of engineers who have had a long experience and can readily grasp any engineering chemical problem so that special plant which may be necessary can be erected with the least possible delay. In many instances the special plant so erected has been unique in design and construction. The removal by vaporisation of a comparatively valueless non-volatile material from the substance is of very great importance both to the Chemist and to the Engineer. Much time has been spent in the study of this problem by the Technical Staff at these Works. In fact, many special types have been designed and adopted by the



Summerfield Works, Ponders End.

a few grammes per occasional batch to tons per week. These products cover a comprehensive range of Fine Chemicals used in medicine, pharmacy and industry.

manufacturers of chemical plant as a result of co-operative research work carried out in the various departments where each particular product has its own plant problem.

Pioneer Products

AS briefly mentioned previously, the founder of the firm was the first in this country to make Quinine Sulphate, Morphine Sulphate and Kreosote on a manufacturing scale, and a glance at the copy of the old price list on page 6 will give the reader some idea of the brilliant alkaloidal research work undertaken in the old Apothecaries' Shop in the Fleet Market. A notable pioneer product manufactured in the Southampton Row Laboratory was Lister's Double Cyanide. This was developed in collaboration with the late Lord Lister in 1884, and the familiar

pink gauze grew rapidly in favour, the climax being reached when enormous quantities of the Double Cyanide were produced for First Aid field dressing required in the Great War.

Prior to this some original research work on the digestive ferments resulted in a manufacturing process being evolved for the production of Pepsin on a large scale, and for many years Morson's Pepsine Porci was a household word. Subsequently other animal products such as Pancreatin and Peptone were added to the list.

Another very interesting pioneer product was Morson's Natural Salicylate of Soda. This held its own on account of its purity and physiological activity for many years after the introduction of Synthetic Salicylates.

The name of Morson has always been associated with the production of alkaloids. As far back as 1826 T. N. R. Morson made the following remarks in the introduction to his new catalogue:—

"The brilliant discoveries in vegetable chemistry made by the French in the last few years have introduced into medicine many remedies, some of which

have been found of great importance, and the value of others will in due time be established. In the preparation of these substances I have for the last few years been engaged, and have added to this catalogue a list of them and their doses so far as they are yet established."

The growth of the House of Morson has in fact coincided with the extraordinary advance in our knowledge of the chemistry of nature, and the firm has been foremost in the application of new discoveries to the practical benefit of mankind.

L I S T
OF
New Chemical Preparations,
Employed as Medicines.

Sulph: Quinine	40/- per oz.
Morphia	18/- per dram.
Acetate of Morphia	18/- ..
Sulphate of Morphia	18/- ..
Iodine	7/- per oz.
Hydriodate of Potass	9/- ..
Stricnnae	25/- per dram.
Emetine	10/- ..
Brucine	30/- ..
Veratrine	30/- ..
Gentianine	20/- ..
Lupuline	
Tr. of Lupuline.	
Tr. of Croton Tiglium.	
Oil of Croton Tiglium.	
Alcoholic Ext. of Nux Vomica.	
Extract of Opium, deprived of Narcotine.	

T. MORSON.

65 Fleet Market.
1821.

Price List issued in 1821.

Analytical and Research Laboratories

THESE Laboratories control the Chemical products at different stages of manufacture.

The general design and organisation of this Department is typical of the care, foresight and attention to details prevailing throughout the Works. This is well illustrated by the system of Analytical control and Reference Numbers which is a feature of the Morson products. When a batch of any chemical is passed by the Analysts it is given a Reference Number which is affixed to each package sent out.

guarantee of quality which it is difficult to equal and impossible to surpass.

The Fine Chemical Industry is one which deals in specialities, each perhaps small as measured in money values, but each of essential importance to the modern world.

This industry comprises a vast variety of products, many of them the outcome of a lengthy series of manufacturing operations. Morson's factory at Ponders End illustrates better than pen can describe the in-



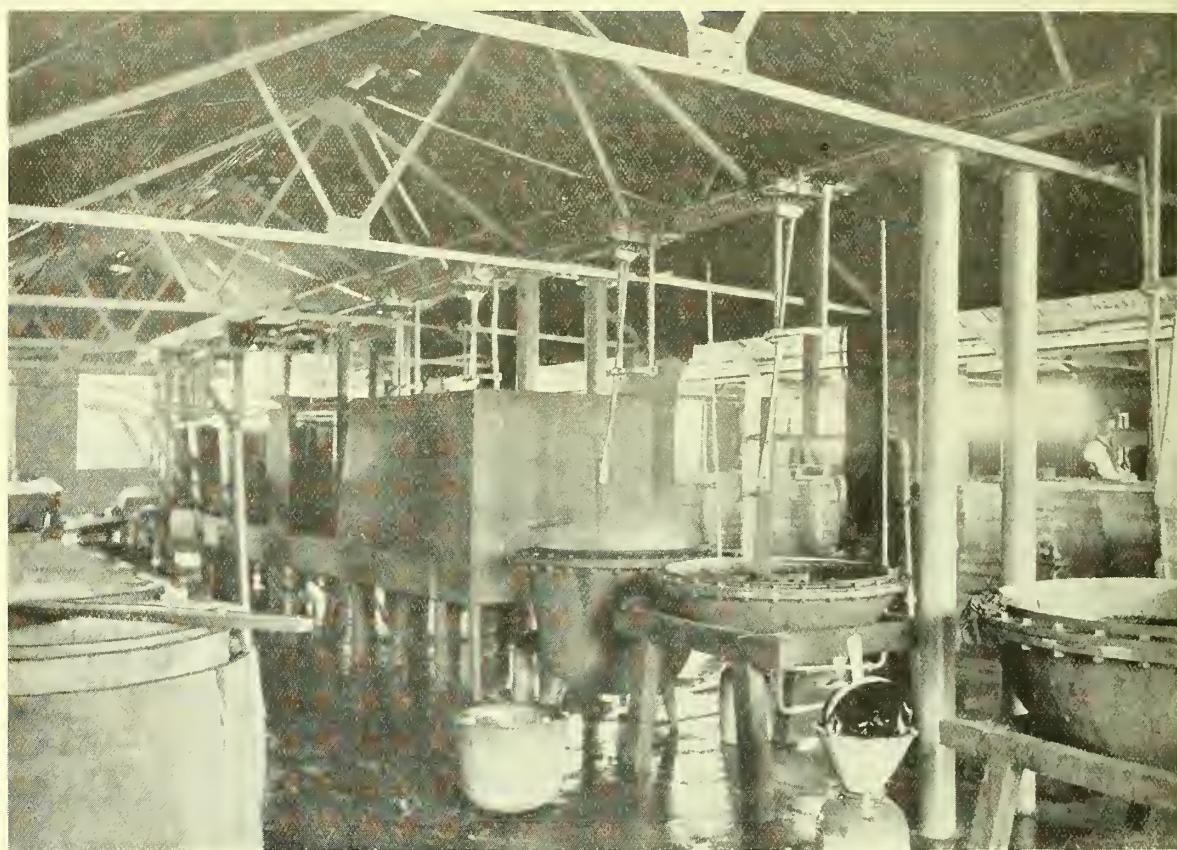
Analytical Laboratory.

This number, which can be traced at any time, refers to the analytical data recorded in the Laboratory, and the system makes it possible to trace the history of any delivery from the raw material to the finished product.

The reputation of the House has been built up on its ability to maintain a high standard in the quality of its products. No system of organised Analytical Control is considered too elaborate so long as it ensures efficiency.

A great tradition, a solid reputation, efficient organisation and up-to-date methods combine to form a

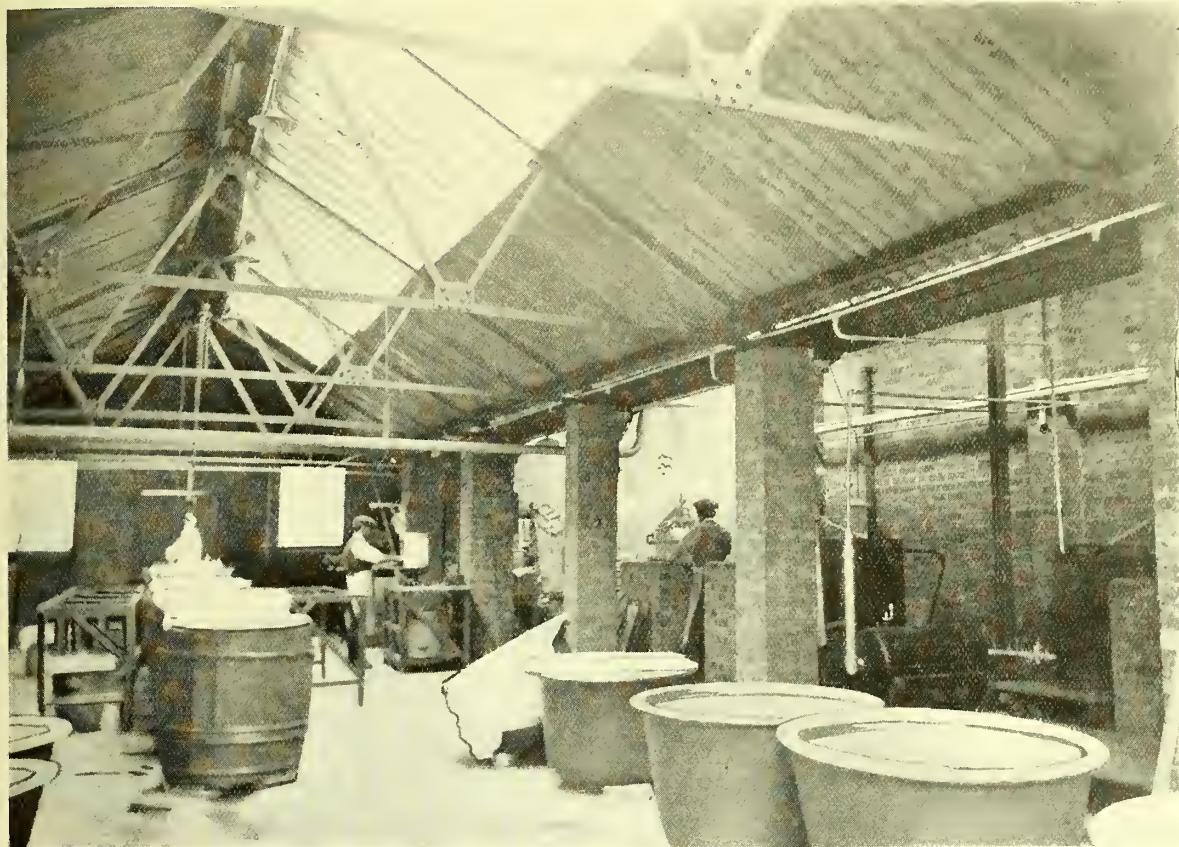
finite variety in fine chemical manufacture. The range of products is so large, and the uses to which they are put so ubiquitous that it is impossible within the limits of this brochure to do more than touch the fringe of this fascinating subject. Figures tell one very little. It is far more exciting to see chemical reactions in practice, to examine the products in the making, and to speculate on their ultimate use and destination. Fortunate, indeed, is the visitor who finds the time and opportunity to inspect these Works and listen to the story of these products, told by a trained technical expert.



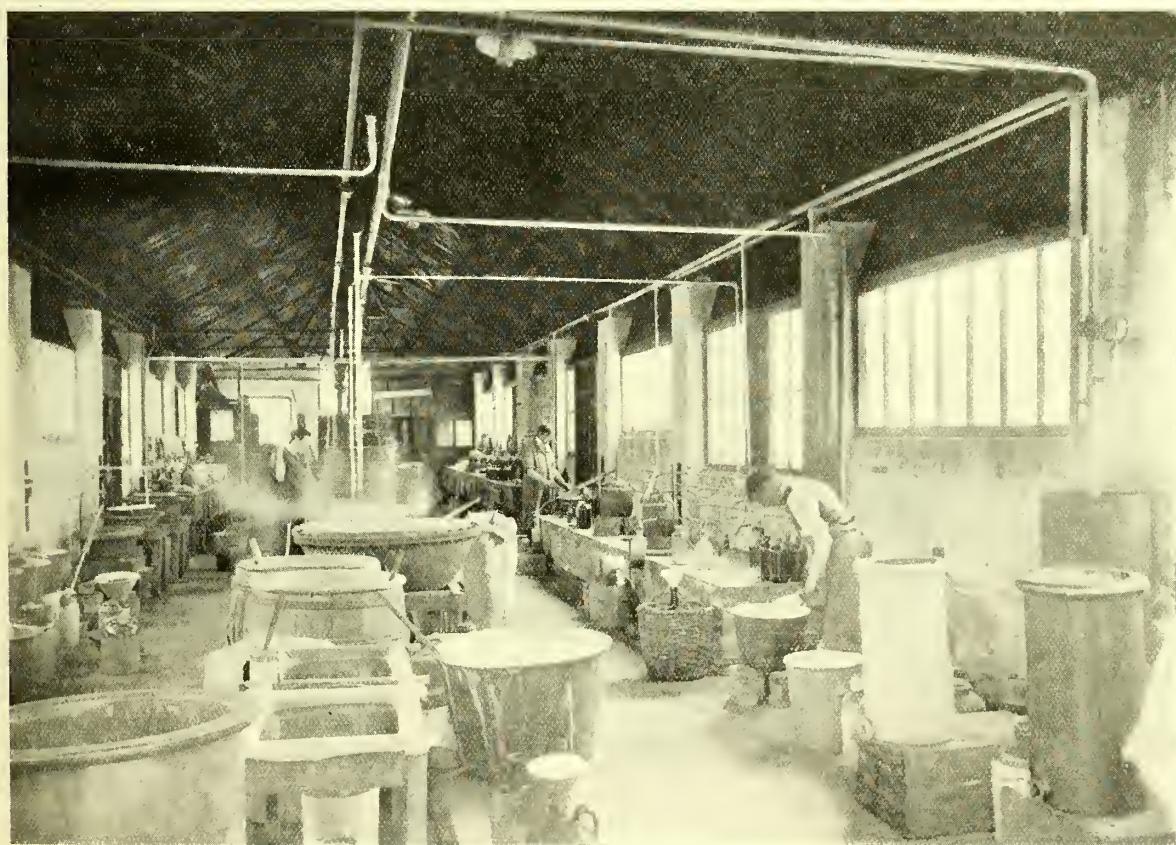
Making Scale Preparations.



Manufacturing Technical Fine Chemicals.



Glycerophosphates Room.



One of the Manufacturing Laboratories.



TRADE MARK.

Notable Morson Products

BISMUTH SALTS

have been a speciality of the firm for many years. Whilst a high standard of purity and good colour has been maintained from the very early days, a great improvement in the value of these salts for therapeutic purposes was effected when the firm introduced the novelty, as it was then, of a light Carbonate of Bismuth. This light variety rapidly found favour and was standardised so that one pound occupies about forty-eight ounces fluid capacity. More recently this progressive house has introduced a Super Levis variety which can scarcely be distinguished in appearance and lightness from Mag. Carb. Levis.

IODINE PREPARATIONS

For nearly a century Morson's Iodides have enjoyed a world-wide reputation. Potassium Iodide is manufactured on a large scale in these Works, and the Morson product complies fully with the requirements of the most exacting Pharmacopœias. In this connection it is of interest to note that whenever it is possible to obtain a higher degree of purity than laid down in official standards, Morson's always do so. In view of the recent attacks on the accuracy of dispensing by chemists, it should be noted by discriminating Pharmacists that for some time past Morsons have manufactured a granular Potassium Iodide of such uniformity that each crystal weighs approximately one grain. The advantages of such a pure and convenient form of Potassium Iodide are so obvious that it is somewhat surprising to note the small extent to which English Pharmacists have availed themselves of this really first-class form of a widely used pharmaceutical chemical.

GLYCEROPHOSPHATES

are manufactured on a large scale. Here, again, the Morson enterprise in pre-war days had to overcome many difficulties in the face of severe foreign competition before it was found possible to manufacture these salts in England on a profitable commercial basis. The full range of Glycerophosphates is now produced regularly in large quantities, a fact which speaks well for the reputation they have gained since their introduction to the trade.

BETA-NAPHTHOL RESUB. "MORSON"

is an important speciality of the House. Prior to the introduction of this product supplies were mainly of foreign origin, and of variable quality. The improved Morson product is of excellent colour and appearance, and fully complies with all official requirements.

CALCIUM LACTATE "MORSON"

is a distinct improvement on the imported article. The main features are freedom from the objectionable odour, usually associated with this product, and ready solubility. A noteworthy point is that again Morson's were the first British manufacturers of a really first-class Calcium Lactate.

S. S. HYDROGEN PEROXIDE "MORSON"

is a very carefully prepared pure Peroxide of Hydrogen. During the process of special manufacture this product is rendered highly stable. It retains its full strength under tropical conditions. A unique testimonial to this really superior product has been given by certain Government departments which definitely specify Morson's S. S. Hydrogen Peroxide.

BARIUM SULPHATE PURE FOR X-RAY WORK

is another notable product of exceptional purity and physical appearance. Great care is taken during the course of manufacture to remove all impurities and to obtain the correct physical condition which produces the best results in X-ray diagnosis. As a result of this it has found favour in every part of the world where a superior and reliable product is appreciated.

CITRATES

To the inexperienced, the production of Potassium and Sodium Citrates may seem a very simple problem. It is not, however, easy to produce on a large scale Citrates of the uniform purity and elegant appearance which characterise Morson's Potassium Citrate and Sodium Citrate; whether in the form of beautiful granular crystals or snow white powder, these products are of outstanding merit.

KREOSOTE "MORSON"

still enjoys the great reputation it attained on its introduction by the founder of the firm. The familiar "White Label" is exported to all corners of the globe, and is still manufactured according to the original process. It is very carefully matured during the course of process, and has no nauseating effects so common in inferior qualities of Kreosote. Its reputation has been enhanced by leading Dentists in the United States of America, who regularly use this product and testify to its great efficiency.

KREOSOTE BEECHWOOD "MORSON" PINK LABEL

and process to the White Label, and conforms to the test of the B.P. '98. Other varieties of Kreosote are also manufactured, including one that strictly meets the requirements of the B.P., 1914. It is but natural that the firm who did the first research work in this country on Kreosote should keep abreast of modern times, and the Morson Water White Kreosote is the result of many years' patient scientific research work. The production of Creosote Carbonate which was undertaken to meet the needs of the medical profession for an intestinal antiseptic, is another successful product which is keenly appreciated.

COLLOIDAL PRODUCTS

The recent advances in Colloidal Chemistry have been fully taken advantage of in the manufacture of chemicals by the electro-osmosis process. The manufacture and production of Osmo-Kaolin marks a further stage of brilliant results obtained in this direction.

Osmo-Kaolin produced by this special process consists of particles no larger than bacteria, and is very largely prescribed by leading present-day physicians as an intestinal antiseptic and toxin absorbent. It is superior in every way to the ordinary Colloidal Kaolin in the treatment of bacterial infection, as the ultra fine condition renders it a powerful absorbent and since it is able to retain a large amount of liquid. A special Osmo-Kaolin is also produced for the manufacture of high-class face powders.

OSMO-CALAMINE

It is an open secret that for some time past no supplies of raw material suitable for the manufacture of natural Calamine have been available, and until the preparation of Osmo-Calamine

is prepared from a genuine Beech Tar under precisely similar conditions

by the electro osmosis process, a great deal of very inferior Calamine was in use which contained much grit and objectionable soluble impurities. Lotions made from this variety were unsightly as the Calamine settled down in a heavy mass at the bottom of the bottle. Osmo-Calamine possesses many distinct advantages over the so-called Calamine of commerce. It is a standard, uniform product of great purity, and light density, is entirely free from grit and soluble impurities, and makes a superior suspension in lotions. A leading Pharmaceutical Chemist of repute in this country describes his test as follows:—

"I tried the Calamine in a lotion—the B.P.C. form—and found that it took nearly twenty-four hours to settle down, and then the precipitate was so light that it half-filled the bottle. There was an entire absence of grittiness and when rubbed on the skin the result was cooling and soothing without a trace of the unpleasant dry and cracking sensation noticed with some Calamines. Your product is very good indeed, and it is the best sample of artificial Calamine I have handled for some time."

DEXTROSE "MORSON" (PURE MEDICINAL GLUCOSE)

Purity and uniformity are essential in a fine product for medicinal and scientific purposes. These qualities in Dextrose "Morson" are maintained by efficient control during manufacture and meticulous care in the analysis of the finished product which is free from all other sugars, also starch, proteid, alcohol and heavy metals.

SCALE PREPARATIONS

Morson's Scaling Departments claim that they can scale practically anything. That this is not altogether an idle boast is proved by a glance at some of the weird compounds in scale form which appear in the collection of specimens in the Museum. Some of the Chromium



Salts that have been scaled are really beautiful products.

In addition to such well-known scale preparations as Ferri. Ammon. Cit and Ferri. Quin. Cit, one notes with interest that the firm were the first to produce Bismuth Tartrate Scales in large quantities. This is of particular interest in view of recent research work on the treatment of venereal diseases by intra-muscular injections of Bismuth. A more notable achievement, however, was the introduction of Morson's Sodium Antimony Tartrate "Scales." It was discovered that only in the scale form was it possible to produce this salt of sufficient purity for the medical profession to rely on its use in the treatment of certain tropical diseases by intravenous injection. The successful results obtained in the Sodium Antimony Tartrate treatment of Kala-Azar have been entirely due to the use of Morson's Sodium Antimony Tartrate "Scales."

Space does not permit of reference to the large number of other scale preparations which are produced each year in ever increasing quantities except to note the peculiar speciality of the firm in Lithium Guaiacate "Scales" which are used in the treatment of Gout and Rheumatism.

REAGENT CHEMICALS.

FROM the inception the House of Morson has always associated with the production of specially pure chemicals for reagents and research work.

The following extract from an introduction to a catalogue issued by T. N. R. Morson in 1826 serves as an illustration of early enterprise :—

"To the preparation of the Chemical reagents included in this catalogue I have devoted much attention, and trust they will be found pure and to be relied upon by those engaged in chemical pursuits."

It will be noted that even in those days Mr. T. N. R. Morson realised the importance of Reagent Chemicals for those engaged in research.

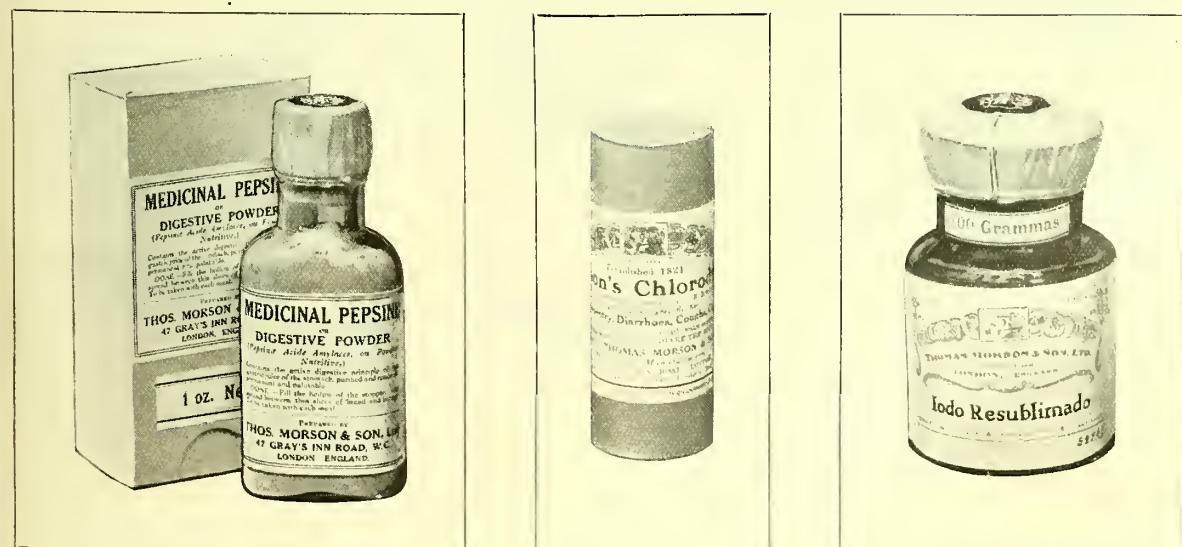
A comprehensive range of A. R. Chemicals is issued and supplied to the leading laboratories and scientific institutions in all parts of the world. Exacting standards laid down in 1826 for purity and excellence have always been followed, and to-day the Morson products are unrivalled.

INDUSTRIAL RESEARCH

The progressive manufacturer of the present generation must be closely allied with the scientist in order to utilise to the fullest extent the application of modern methods of production over the old-fashioned rule of thumb regime. At the well-equipped Summerfield Technical Research Laboratories, special process industrial problems are constantly being investigated at the request of manufacturers, and the accumulated experience of over one hundred years is brought to bear on all manner of problems.

TECHNICAL FINE CHEMICALS

By this expression, chemicals, which are used for other purposes than medicine, pharmacy and research work, are indicated, and require for their production the skilled organisation and technical knowledge which are more usually associated with the Fine Chemical Manufacturer. Morsons' for many years have specialised in the manufacture of every class of Fine Chemical for the applied arts. In this connection special mention may be made of the comprehensive range of Oleates, Resinates and Siccatives now manufactured for use in the Paint, Varnish and Linoleum Industries. Obviously, as the very nature of these special chemicals and their application in industry consist of secret processes, no detailed reference can be made.



The Attractive Package



IT has been stated that to wed art to the product of the factory is costly, and that the beautiful and the attractive are not commercial propositions, except at prohibitive prices. This, of course, is a fallacy. It is not at all necessary to go to extremes in making goods attractive. It is surely no more difficult nor more costly to make an attractive article than it is to make something which, however well it serves its purpose, is crude in form and unpleasing in appearance. Certainly the House of Morson seems to have acquired that peculiar *savoir faire* which results in products of beauty combined with utility.

The exclusive artistic finish to the packing of chemicals adds the hall-mark to a superior product. The high standard of the unique Morson packing contains that elusive distinction not reached by any British or Continental manufacturer. The success of the Morson

packing is amply demonstrated by the following appreciation from the Continent:—

“ . . . We have the pleasure to mention to you our compliments for the very nice way of packing up your articles. Some of our customers tell us that they find your cartons prettier-looking than, for instance, those of —, and their packages have hitherto been looked upon as standards.”

In a brochure of this description it is impossible to describe all the styles of packing, but the few illustrations, shown on this and previous pages, will serve to indicate the various methods in use. New avenues of supply are constantly being searched, and experiments are now being conducted with the view of abolishing the packing in bottles and jars of certain chemicals which, up to the present, cannot be issued in cartons.



Overseas Markets



THE Study of the Export Trade.—The paramount importance of the markets of the world has been fully realised by the progressive House of Morson. In order to deal adequately with the various problems and to obtain first-hand information of export and overseas requirements, Morsons' have, during the last decade, regularly sent special representatives to Australia, New Zealand, South Africa, India

markets. Customers' special requirements for the different markets are carefully studied. The constant aim is to give the Overseas Buyer exactly what he requires. The success which the Export Department has attained is due in no small measure to this achievement. Great care and attention are devoted to the packing of export orders—Morsons' packers are experts—it is their proud boast that it is very rare to receive a



Corner of the Export Packing Department.

and the Far East who have made a special study of local conditions. Resident Agents on the Continent, Egypt, United States and South America look after their interests in these countries. The vast experience gained enables them to deal fully with all matters relating to shipping, customs and export.

A prominent feature of the Overseas Trade is the special labelling and packing for the various foreign

complaint of breakage. There are no old-fashioned methods employed in conducting this great export business. C.I.F. terms are quoted to all parts of the world where it is possible to do so on a through bill of lading. This is a point fully appreciated by the keen overseas buyer. It is also of interest to mention that Morsons' are on the list of chemical suppliers to the various Colonial governments, which in itself is a guarantee of excellence.

LIST OF AWARDS.

LONDON :
(Pure Chemicals)
1851 Prize Medal.

ST. LOUIS :
(Fine Chemicals and Scale Preparations)
1904 Gold Medal.

PARIS :
(Pharmaceutical Preparations)
1855 Prize Medal.

LONDON :
(Iodides and Bismuth)
1908 Grand Prix.

LONDON :
(Morphine and other Alkaloids)
1862 Juror.

LONDON :
(Pepsine and Kreosote Preparations)
1909 Juror.

PARIS :
(Pepsine and Scale Preparations)
1867 Silver Medal.

BRUSSELS :
(Bismuth Salts, Kreosote, &c.)
1910 Diplôme d'Honneur.

PHILADELPHIA :
(Alkaloids)
1876 Prize Medal.

TURIN :
(Fine Chemicals)
1911 Grand Prix.

PARIS :
(Kreosote and Iodoform)
1878 Silver Medal.

TURIN :
(Reagents)
1911 Diplôme d'Honneur.

SUPPLEMENT TO THE CHEMIST AND DRUGGIST, APRIL 25, 1924.

SUPPLEMENT TO THE CIVIL & MILITARY DRUGIST, APRIL 26, 1924

To say : "**BIGGEST**"
is more than we know, so we say :

"TERRIFIC" CORN CURE SALES are an admitted feature of **THE WIGGLESWORTH WAY**

In some areas our "exclusive" design policy has exhausted our numerous Packings.

Shortly we hope to have another Liquid ready with the usual selling energy behind it.

Why we sell so much every Season is no secret, but rather a simple case of cause and effect.

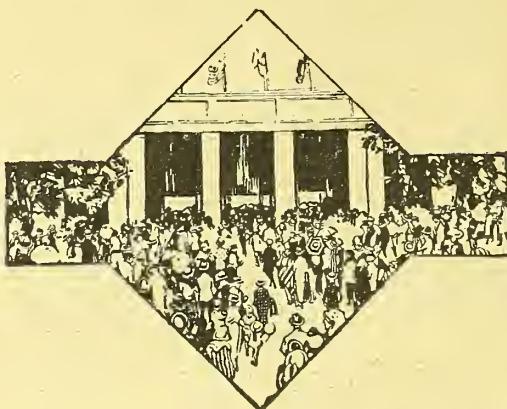
If you gave up one whole day to the consideration of how to sell more Corn Cure you would expect to see results for your efforts at the end of the Season.

Our Window Displays that strike the right appeal—vigorously and effectively—often take days to plan. Add the experience of years to the abilities of a chosen staff, and the reason why some Chemists sell Grosses, whilst others only sell Dozens is obvious.

Window Sales bring other business as well as repeats. It is the way to increased turnover with a cent. per cent. profit.

*We have the samples waiting
for your post card. Do it now.*

WIGGLESWORTH, LIMITED
WESTHOUGHTON - - - Lancs.



Milton for Wembley

The British Empire Exhibition is to be Miltonised daily.

Out of all competitive preparations, Milton is the one officially selected!

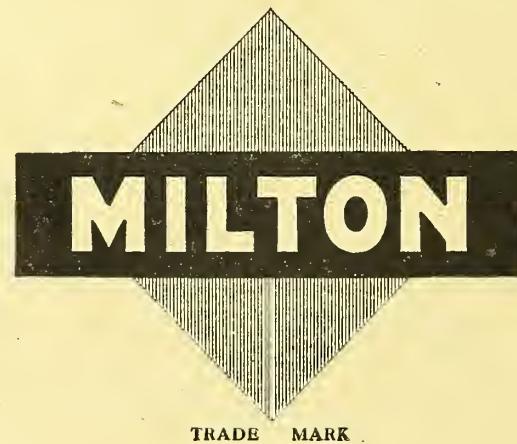
To the millions of visitors this official endorsement will be proof positive of Milton's efficacy.

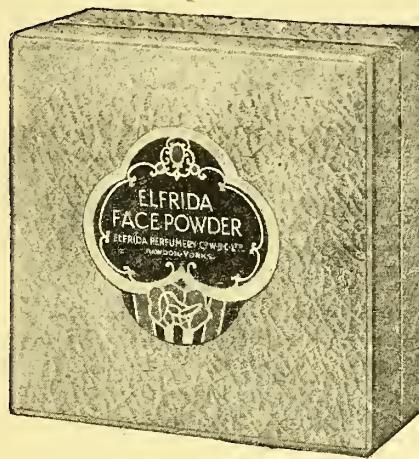
Reinforcing Milton's extensive national advertising, driven home by Milton signs throughout the Exhibition grounds, this confirmation of Milton's protective powers will send to your counter an ever-increasing number of Milton purchasers.

Be prepared for them, bring them to your counter for their Milton with Milton showcards and display material in your window.

MILTON PROPRIETARY LIMITED.
Telephone : Clerkenwell 3860.

Office & Works : 125 Bunhill Row, F.C.1
Telegrams : "Ocnolim, Barb, London."





ARE YOU DISPLAYING THIS LINE?

The above illustration is one of the many successful Elfrida lines. You cannot stock a more popular or pleasing series of toilet preparations. The demand for them has been increasing daily at an enormous rate ever since they were first brought out.

We feel that this demand is proof positive that they are all lines in public favour. Every item is artistically turned out and they radiate quality in every respect. The prices too, are all on the P.A.T.A., and they all show an excellent margin of profit for you. Make a display now, there is unlimited scope for sales with the Elfrida Series.

THE ELFRIDA SERIES

of Super Toilet Goods



W. B. CARTWRIGHT LIMITED · RAWDON NEAR LEEDS

WATERGLASS

**As we prophesied,
1924 has been 'GOODALL'S Year'**

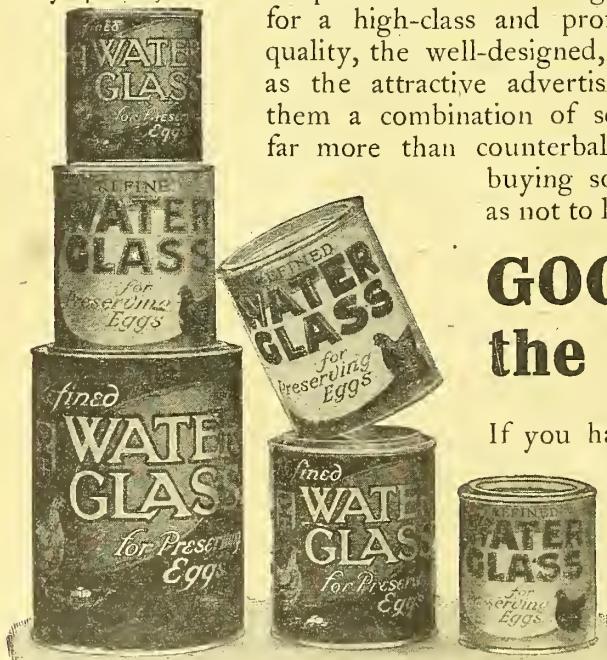
IN the issue of the "Chemist and Druggist" dated January 5th—nearly 4 months ago and before the season had started—you will find we confidently stated that "1924 is going to be GOODALL'S Waterglass Year."

Now we have the pleasure of taking this space in order to thank our customers for the generous orders which have made the prophecy come true—and come true to an even greater extent than we ever thought possible. From Hull to Cork, from Finland to South Africa, the orders have rolled in, and we are now able—though there are still some weeks of the season left—to state that

**1924's sales are more than
2½ times those of 1923.**

This great increase, achieved in face of unusually keen competition in the line, shows very plainly that the pharmacist now recognises that GOODALL'S is THE pack for a high-class and profitable waterglass trade.

The unvarying quality, the well-designed, well-printed, and well-made tins, as well as the attractive advertising matter we send out, make between them a combination of selling force which the pharmacist knows far more than counterbalances the few coppers he may save by buying some cheap looking pack which is as likely as not to lie in his cellar from one season to the next.



**GOODALL'S PACK is
the SELLING pack.**

If you have missed your opportunity this season, please remember us in good time for the next. Then you too will be able to say : "This was MY Waterglass season."

**GOODALL, BACKHOUSE
& CO. :: :: LEEDS.**

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WEED KILLER

THE BEST KNOWN & LARGEST SALES.

**FULL
STRENGTH.
ALWAYS
EFFECTIVE.**

POWDER AND LIQUID QUALITIES.
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REGULATIONS AND ALL REQUIREMENTS.

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DIAMOND CORN CURE

ONE DOZEN BONUS WITH ONE GROSS.
SIX ,,, FIVE ,,,

COST
per **84/-** gross.
plus bonus,
less 10% 28 days.

Five gross may be taken over six months.

We are confident in saying that once tried
DIAMOND CORN CURE
becomes a live stock line.

RETAIL
10½ D. per
bottle.

ORDER NOW AND BE READY FOR THE WALKING SEASON.

CUPAL Ltd., Blackburn.

STAND A.100
 North Wall
 Chemical Section
BRITISH EMPIRE
EXHIBITION

NORVIC
Regd.
CRÊPE BANDAGES

Light, washable, rubberless, hygienic and self-adjusting, are recommended everywhere for

VARICOSE VEINS

Also made in Flesh Colour, practically invisible under the stocking.



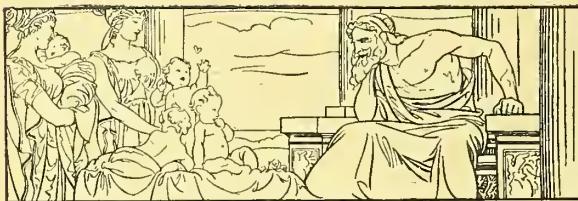
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made in widths 6, 8 and 11 inches.
 Stretch to double their length.
 For all cases where adaptability, durability and support are essential.

INVALUABLE IN MATERNITY

*Sole Manufacturers : GROUT & CO., LTD., Great Yarmouth.
 London Agent: T. S. EASTAWAY, 35 Wood Street, E.C.2.*

Stocked by all the leading wholesalers.



A word to the progressive pharmacist on the claims made for certain Baby Foods

You have often seen the statement that A is "Nearest to Nature," that B is "Similar to Human Milk," that C is "Identical with Breast Milk." But how often have you seen analytical data, whose reliability is unimpeachable, in support of these claims?

The manufacturers of Humanised Trufood claim that it is the only scientific alternative to human milk available for the physician, nurse or pharmacist who is called upon to advise a mother as to the best substitute for the breast.

In support of this they offer the following figures :—

	Breast Milk	Cows' Milk	Humanised Trufood
Lactose	6.5	4.7	6.3
Fat	3.3	3.5	3.3
Casein	0.9	3.0	0.8
Lactalbumen	0.4	0.3	0.6
Salts	0.2	0.8	0.6
Water	88.7	87.7	88.4
	100.0	100.0	100.0

The resemblance to human milk is even closer than is revealed by this table, since the presence of active enzymes—amylase, lipase, peroxydase, etc.—can be readily demonstrated.

For no other milk food can a similar claim be substantiated

Continuous propaganda to the medical and nursing professions by a staff of qualified pharmacists is resulting in an ever-increasing demand. You should hold a minimum stock to meet enquiries.

If you do not stock Trufood, write to-day for samples and special trade offer.

TRUFOOD

TRUFOOD LIMITED

The Creameries, Wrenbury, nr. Nantwich, Cheshire
T.F. 102-130



"GRIPS" FIRST-AID PASTILLES And WEMBLEY.

**Special issue of
New Size Containers
to commemorate the
BRITISH EMPIRE EXHIBITION.**

Everybody will talk about the wonders of Wembley, and souvenirs will be keenly sought after. To commemorate the opening of this gigantic Exhibition we are introducing a new series of Containers for "GRIPS" FIRST-AID PASTILLES, showing views of various parts of the Exhibition and Grounds in photo-colour.

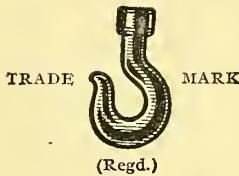
These new tins, in 1-lb. and 2-lb. sizes, are quite free from advertising matter. Their very novelty will ensure their success.

**WRITE NOW for particulars and prices.
Supply strictly limited.**

**Distributing Agents to the Wholesale and
Retail Chemists' Trade,**

Thos. Christy & Co.
4-12 Old Swan Lane, London, E.C.4.

J. W. Lightbown & Sons, Manchester Road, Accrington, makers of "Grips" First-Aid Pastilles, will be glad to see all trade friends at their stand, No. A58a, in the Chemical Hall, Palace of Industry.



Where Salesmanship is employed

SUCCESS in selling demands the employment of salesmanship. To expect people to come into your shop, and to supply them only with what they ask for, will never build up a great trade.

Enterprising retailers know that they must **sell** to customers goods that can be used with profit. Such efforts are attended with gain both to buyer and seller, and big trade results.

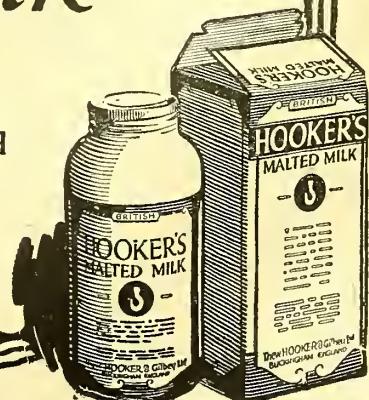
Now is your opportunity. You know that the public are being interested in Hooker's by big press and poster advertising. A few words from you will persuade customers to purchase a trial bottle, and the trade thus begun will remain because of the merit of the article.

If you put true salesmanship to work, Hooker's will soon become one of your most profitable lines.

HOOKER'S Malted Milk

Write for prices and trade terms to

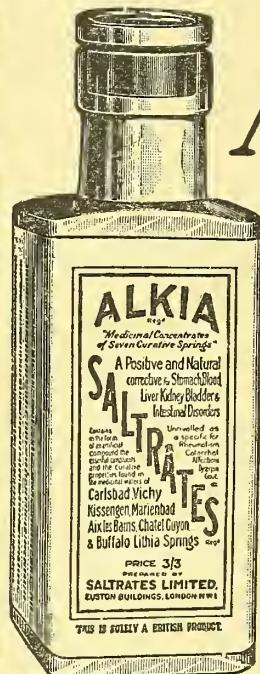
The, HOOKER & Gilbey Ltd., Buckingham, England



Compounded UP TO A STANDARD

(*The Highest Possible*)

Never DOWN TO A PRICE



these lines are as near perfection in their respective fields as it is humanly possible to get them, regardless of cost or selling price.

Your customer requires no persuasion after he has once given our preparations a trial. He then KNOWS they are just what he wants and is interested in no others. In other words—after you make the first sale these goods go on selling themselves.

Alkia Saltrates

The most efficient Saline on the market and the best value for the money. Pleasant tasting and always satisfies the user. Widely advertised for Rheumatism, Gout, Sciatica, or any Liver, Kidney, Stomach, Intestinal or Blood Disorders, Catarrhal Affections, etc.

Sells at 3/3 (P.A.T.A.).

Reudel Bath Saltrates

The best selling and most fragrant, refreshing, beneficial and all-round satisfactory preparation for the bath—especially recommended for Corns and all Foot Troubles, Rheumatic Pains, etc.

Sells at 2/- and 3/3 (P.A.T.A.).

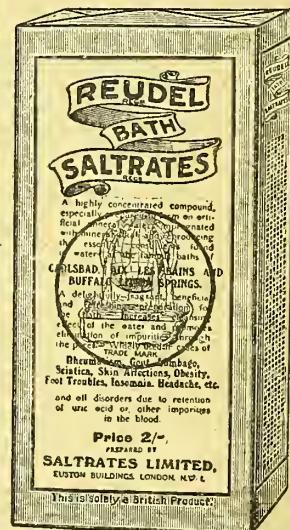
YOU CAN STOCK THESE RAPIDLY MOVING LINES ON GUARANTEED SALE TERMS

Carriage Paid in United Kingdom on orders for three dozen, which may be assorted.

Showcards of strong selling power sent free on request.

Write for our Special Terms for Counter Display.

SALTRATES LIMITED, EUSTON BUILDINGS, LONDON, N.W.1.



Maw's Page



Toothbrushes mean Meritor

In the dictionary of the wise pharmacist the word toothbrush spells Meritor. For the pharmacist who realises his own importance in the scheme of things commercial there should be no other translation to the word.

Why sell any other toothbrushes but Meritor? Every individual customer who enters your pharmacy for a toothbrush must be open to consider your recommendation of a Meritor brush. And then the satisfaction of selling a Meritor toothbrush!

The satisfaction of selling a sound and guaranteed article. The satisfaction of knowing that every time your customer replaces that toothbrush the order will come back straight to your counter.

The credit of the fine craftsmanship of Meritor toothbrushes, of the elegant press advertising—of the artistic presentation, is all reflected upon the pharmacist.

Don't hide away your Meritor toothbrushes in the quiet recesses of your pharmacy. Show them. Sell them. They are goods to be proud of.

S. Maw, Son & Sons, Ltd.,
Aldersgate St., London,
and Barnet.



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Exchange

Telegrams:
Eleven
Cent
London

Cables: **Codes**
A.B.C.
4th & 5th
Edition
Eleven
London

Telegraphic Address: "CRESSWELL, HOLB., LONDON."

Telephone: No. 1432 Holborn.

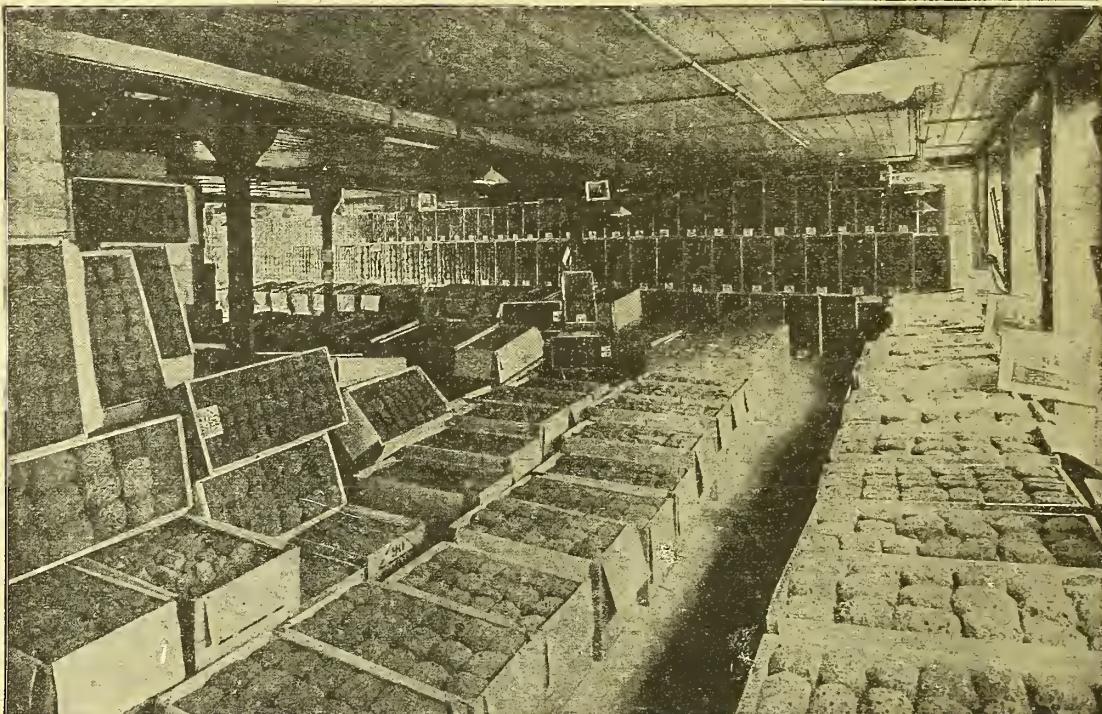
THE SPONGE HOUSE

INTERNATIONAL SPONGE IMPORTERS, LIMITED,

CRESSWELL BROTHERS BRANCH

Sponge Importers, Exporters and Merchants, and Chamois Leather Dressers,
18 and 19 RED LION SQUARE = **LONDON, W.C.1**
 WITH THE LARGEST STOCKS OF ALL SPONGES IMPORTED DIRECT BY US FROM THE FISHERIES
 AT LOWEST PRICES.

WE INVITE COMPETITION.

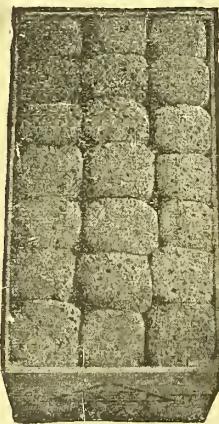


Buyers are invited to Call to inspect our Magnificent Stocks and make their own selections. Lowest Market Prices.
 Absolutely Best Values. The following abridged List will serve as a guide to Buyers when writing.

UNBLEACHED MEDITERRANEAN SPONGES in Original Cases

THE CONTENTS OF THE FOLLOWING CASES WILL BE PRESS-PACKED AND SENT POST FREE TO COLONIAL AND FOREIGN BUYERS WITHIN THE RADIUS OF PARCELS POST.

To visitors at The British Empire Exhibition we extend a hearty invitation to inspect our stocks at above address.



HONEYCOMB.

Extra Choice, Finest Texture and Shape, The Pick of all the Fisheries.

Pieces	Average in Case.	Price per Picce.
300	Toilet at	9d.
250	"	1/-
200	"	1/6
160	"	2/-
140	"	2/6
120	"	3/-
100	"	3/6
90	Medium Bath	4/6
80	"	5/6
72	"	6/6
60	"	7/6
45	Large	8/6
30	"	10/6

HONEYCOMB.

Toilet & Bath.
Good 2nd Quality.

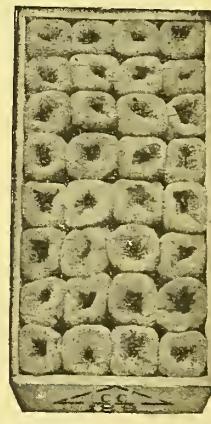
Pieces	Average in Case.	Price per Picce.
270	at	6d.
180	"	9d.
170	"	1/-
160	"	1/6
140	"	2/-
120	"	2/6
110	"	3/-
90	"	3/6
80	"	4/-
75	"	4/6
70	"	5/-
65	"	5/6
60	"	6/6

FINE TURKEY

SOLIDS.

SELECTED SHAPES.
1st Quality.

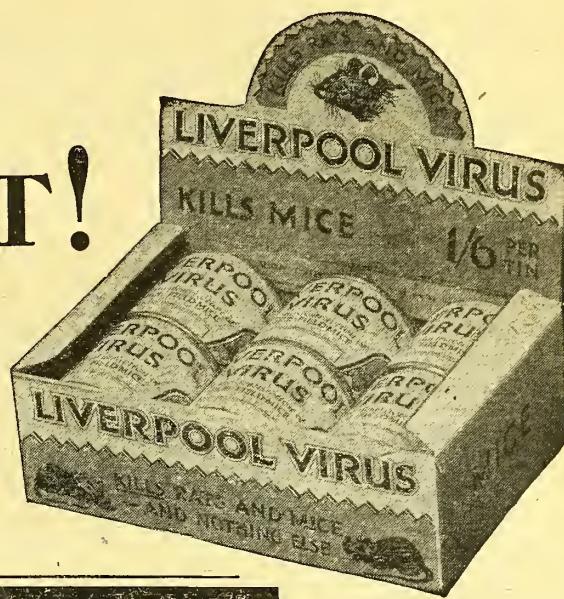
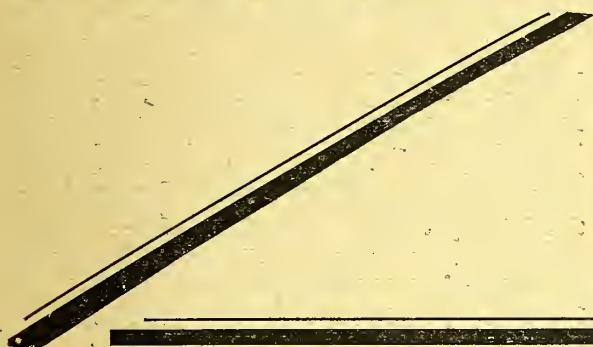
Pieces	Average in Case.	Price per Piece.
200	at	1/-
150	"	1/6
100	"	1/9
100	"	2/-
80	"	2/6
50	"	3/-
36	"	4/-
24	"	5/-



LOOSE GOODS DEPARTMENT.

SPONGES IN SMALL PACKAGES. Fine Turkey, Fine Egyptian and Honeycomb. In 1st, 2nd and 3rd Qualities Bleached or unbleached (state which in ordering). On strings of 1 dozen pieces, or loose in bags. At per doz.: 2s., 3s., 4s., 6s., 9s., 12s., 15s., 18s., 24s., 30s., 36s., 42s., 48s., 54s., 60s., 66s., 72s. Bleached Cuban. At per String or Dozen. Wool, Grass, Yellow and Fine. 1s., 2s., 3s., 4s., 6s., 9s., 12s., 15s., 18s., 24s.

—PAYS YOUR RENT!



THIS season of the year, when there is an increased liveliness in the Mice and Rat colonies, is a specially good one for "Liverpool Virus" displays. The "Show Outer" here illustrated is a strong and silent salesman. Place it in your window or on your counter now and you will be surprised at the result, for a great many of the customers coming into your shop are interested. The housewife and the shopkeeper need "Liverpool Virus" for Mice. The warehouseman, farmer and poultry keeper require the "Liverpool Virus" for Rats.

Townsmen and countrymen all are potential customers for "Liverpool Virus," and this "Show Outer" will remind them of the advertisements which first gave them a desire for it.

May we send you to-day showcards and literature, with an Outer containing six 1/6 tins of the Virus for Mice, at 12/- per dozen, and an Outer of six 2/6 tins of the Virus for Rats, at 20/- per dozen? This shows a profit of 50 per cent. on outlay—a profit, and this statement is based on fact, which will soon

PAY YOUR RENT!

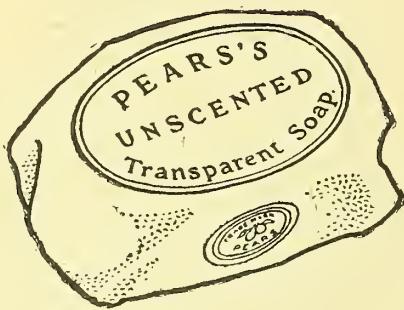
LIVERPOOL VIRUS WIPES OUT MICE AND RATS

Sole Manufacturers:

EVANS SONS LESCHER & WEBB LTD.
LIVERPOOL

New York

LONDON



Make it an invariable rule to cut out lines which stay long on your shelves and thus eat up your profits.

Profitable lines are not necessarily those which show a large margin — but always those which sell quickly. It is better to make two profits of 25 per cent. in two weeks than one of 50 per cent. in two months.

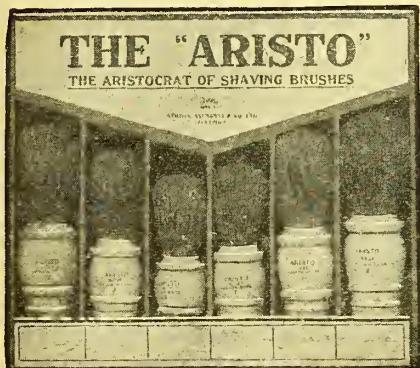
Stock Pears' Unscented Transparent Soap and Pears' Golden Series and you will achieve two desirable things — a quick turnover and a satisfied clientele

PEARS

A. & F. PEARS, Ltd., 71-75, New Oxford Street, London, W. C. 1.

The Handles won't crack and the Bristles are there for ever

Postage paid on single sample cases (22/-) if "C. & D." advertisement is mentioned.



White handles which will not split under the most exacting tests. Specially recommended for Export to all parts of the World irrespective of extremes of climate.

EXPORT ENQUIRIES INVITED.

THAT five minutes in the morning, needed for shaving, is a time of intimate friendships. How a man cherishes his favourite razor, probably the oldest and the poorest looking in his collection. Then the brush—the man who shaves *knows* that comfort depends upon the brush. The 'ARISTO' SHAVING BRUSH never cracks—hot water does not bring up a nasty dirty grain—it never sheds its badger, and after a year's use it remains full, even and soft. It's a brush a man *can* make a friend of, and the Chemist who supplies it gets a reputation for reliability which entices the customer back for other goods.

'ARISTO' SHAVING BRUSH

Mixed Badger and Bristle

Size	1	2	3	4	5	6
	28/-	36/-	42/-	48/-	54/-	60/-

(Handy counter-case as illustrated,
One of each size as above, 22/-)

Best Badger. Selected material only.

	Small	Medium	Large
per doz.	... 72/-	102/-	144/-

The 'Aristo' Junior. A small handled brush easily packed in tube for the travelling bag or dressing case.

One size only ... per doz. 28/-

AYRTON, SAUNDERS & CO. Ltd.

34 Hanover Street Telegrams: "Sundries, Liverpool." LIVERPOOL, Eng.

*Statutory Rules and Orders,
1923. No. 1322.*

PUBLIC HEALTH, ENGLAND

Messrs. MILKAL, Ltd., advise the trade that on and after

MAY 1st, 1924,

all dried milks must be labelled in accordance with the above regulations.

**Retailers are warned against offering for sale
or displaying any tins or packets not so labelled.**

They are at the same time advised that



in their new packing comply in every respect with the new regulations.
Should any trader have on hand at May 1st any stock bearing the old labels
he should communicate with:—

Messrs. MILKAL, Ltd., 31, St. Petersburgh Place,
Bayswater, London, W.2.,

stating number of tins, when arrangements will be made to exchange for newly
labelled stock.

MILKAL and KOOKAL are produced, packed and sold in England
by an English firm, employing English labour with English capital.

MILKAL LTD

Stocks are held at the following depots of Messrs. J. Lyons & Co., Ltd., where you can obtain
one or more tins at lowest trade terms.

James Watt St., BIRMINGHAM	54 Brick Street - LIVERPOOL	96 North Western Street, Ardwick - MANCHESTER
28 Aire Street - - : LEEDS	Lovaine Crescent, NEWCASTLE-ON-TYNE	4 Redcross Street - BRISTOL 68 Millicent Street - CARDIFF
West End Chambers, Commercial Road - - SOUTHAMPTON	219 West George Street and Grafton Street - GLASGOW	19 Cromford Street, NOTTINGHAM
Lambert Place, Lambert St., SHEFFIELD		

Produced and Packed in Devon (England) by MILKAL, LTD., London and Devonshire.

A FAULTLESS SALT.

PHARMACISTS who desire a perfect saline, exquisitely packed, and displaying their own imprint, should order "Vine" Grape Saline 8 oz. Cheltenhams, as illustrated above.

THE SALINE.

A skilfully balanced powder, giving a brisk and sustained effervescence; just sweet enough to be enjoyable, but not too sweet to destroy that pleasant tang which an honestly compounded saline alone can leave on the palate.

THE PACKAGE.

The Carton, printed on good quality enamelled board, displays a bunch of luscious grapes in nature colouring on a delicate ivory background. The label, also in full colours, harmonises with the carton.

Pharmacist's name and address is printed free on labels and cartons for orders of 3 dozen. Ask our Representative to show you samples and quote trade prices, or write direct.

THOMAS KERFOOT & CO LTD.
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

COPYRIGHT

EUCRYL **DENTURE POWDER**

HERE is a big field for new business in a powder for artificial teeth at the right price. Many thousands who have to wear dentures are only using salt and water or coarse soap powders, and these are woefully inefficient.

Display on your counter EUCRYL DENTURE POWDER and the small card sent with it, and you will find a very ready sale and real new business.

NEW PACKING IN ATTRACTIVE TINS to retail at 7½d.

ON USUAL GENEROUS BONUS TERMS

EUCRYL LIMITED

The Proprietaries Problem

So far as face powders are concerned is greatly simplified when you consistently feature

ARMAND COLD CREAM Complexion Powder

For ARMAND pays you nearly 100% profit on cost.

You have Armand's guarantee that this ratio will not be diminished (nor has it been in ten years of Armand business).

ARMAND is a safe repeater.

You can buy on best terms whether you buy one dozen or a hundred gross.

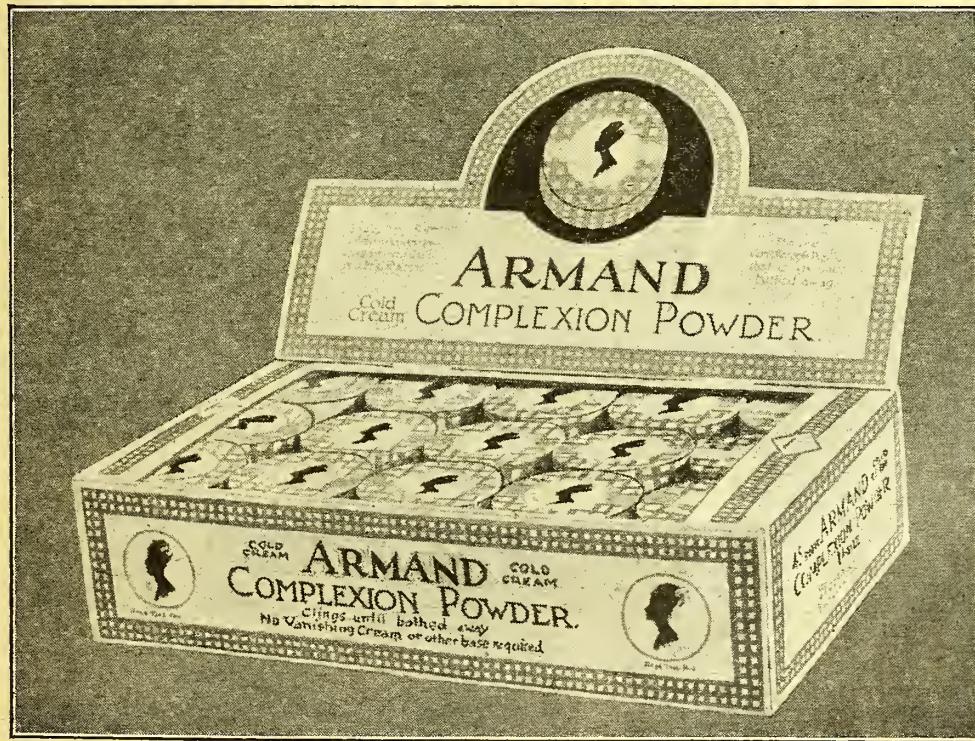
Put the **1/- TRIAL SIZE** to work for you. It will make you nearly **6d. PROFIT** on every box and hosts of friends for the larger boxes.

Display cartons with three dozen (45 boxes).

FLORIAN & ARMAND, LTD.

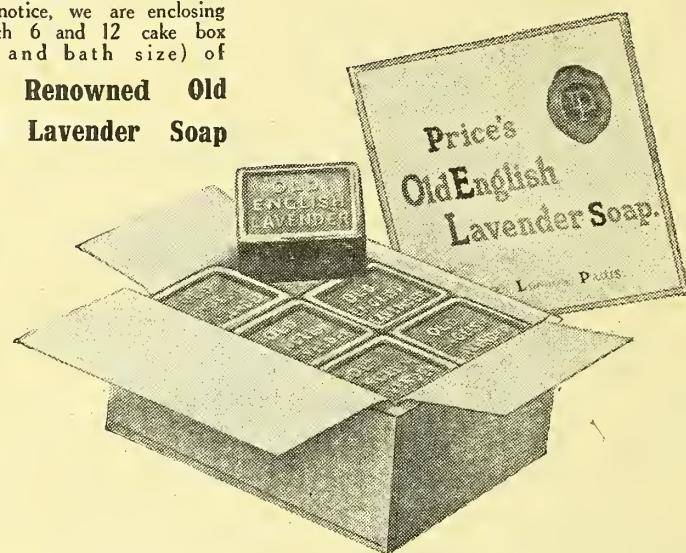
Queensway, Ponders End, Middlesex.

Telephone: Enfield 783.



PRICE'S GIFT of LAVENDER SACHETS

WE have the pleasure to announce that until further notice, we are enclosing with each 6 and 12 cake box (toilet and bath size) of Price's Renowned Old English Lavender Soap



PRICE'S SOAP CO. LTD.,
BLACKFRIARS :: E.C.4.

a handsome perfumed satchet filled with the finest lavender flowers. This charming gift is certain to appeal to the public and stimulate the demand for PRICE'S RENOWNED OLD ENGLISH LAVENDER SOAP—the soap in the neat wooden boxes. Your enquiries will be appreciated.

Works :
GREENWICH.

Watch for
Gibbs
**SHAVING
PRODUCTS**
 Announcement
 next week



the famous preparation for rectifying all disorders of the hair and scalp

**SHOWS YOU
100% PROFIT**

But, apart from this very attractive profit you have the satisfaction of knowing you are supplying your customer with the best possible preparation, for "LITTO" *will* rectify the disorder with which they are troubled.

There are several varieties of "LITTO" preparations and hair dressings, but with the famous hair grower or special preparation, "Alopecoid" for the treatment of Alopecia we give a signed guarantee that it will fulfil the claims made for it. This guarantee quickly gets the confidence of your customers! The demand for "LITTO" is rapidly increasing. It will pay to make a display in your window. If you have not any showcards drop us a line.

ON P.A.T.A. LIST.

Litto Laboratories, 2 Newington Green, London, N.1



Frozocclone

REGD.

The Original and Best SOLID EAU DE COLOGNE

has many imitators but no equal.

Its elegance and utility appeal to all.

Made from the finest Eau de Cologne. Refreshing when rubbed on the forehead, pleasant as a smelling bottle, invaluable in a heated atmosphere and when travelling. A real acquisition to every household. Excellent after shaving. A boon to those in hospital.

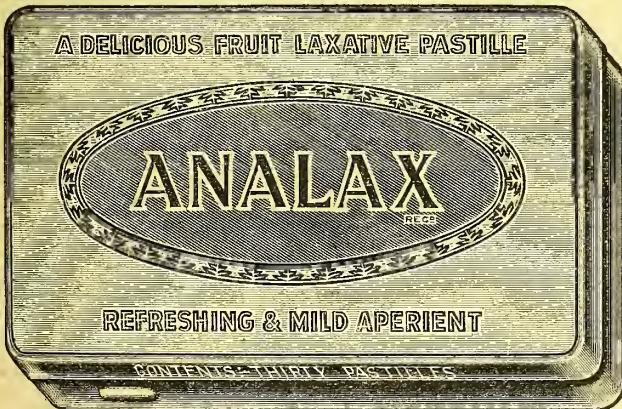
Retails at 3s. 6d. Minimum (P.A.T.A.) Per doz. 32/-

SPECIAL TERMS FOR BONDED SHIPMENT OF 4 gross minimum.

SOLID ENGLISH LAVENDER

TERMS AS FOR FROZOCCLONE.

Similar size and packing as "FROZOCCLONE" but in BLUE glass.



A DELICIOUS FRUIT LAXATIVE PASTILLE

ANALAX

REFRESHING & MILD APERIENT

CONTENTS—THIRTY PASTILLES

THE IDEAL FRUITY LAXATIVE

In Pastille form. Delicious, Reliable, Effective.

Retails at 2s. 3d. minimum. Per dozen 21s.

REDUCED PRICES FOR EXPORT.



THE NAIL POLISH

with new and distinctive features.
Softens the cuticle. Brilliant polish.

Retails 1s. 9d. Per dozen 15s.



TRADE MARK

R. DEMUTH'S LABORATORIES
68 Salusbury Road, and Montrose Avenue, London, N.W.6

The 'ESSENFLOUR PRODUCTS Ltd.'

*Distillers of Essential Oils and
Manufacturers of Perfumery Products*

mysore - - s. India

have been appointed Sole
Consignees and Distributors of

mysore GOVT. SANDALWOOD OIL

Satisfying all pharmacopœia and possessing an excellent aroma.

*Samples and prices will be readily supplied
on application to our correspondent at*

'PERFUME HOUSE,' 6-8 Beauchamp Street, London, E.C.1

Telephone : HOLBORN 2499.

Telegrams : "EKDUM LONDON."

Floradew
(Non-Greasy) **2/9** Large Art
Flask
FOR SOFT WHITE HANDS AND ARMS

22/- from your
wholesaler

1/6 Size ... at 12/-

Advertisers and Hairdressers' Sundriesmen write for
attractive selling offer to—
FLORADEW CO., 27 Chancery Lane, London, W.C.2.

Assist British industry by recommending the
'WATTS' Sheffield-made Safety Razor Blade,
the blade of *super-keenness*.

A counter display will help.

A user writes : "Can't understand
people buying foreign blades when
such as yours are obtainable."



3/6
per doz.
allowing
50% PROFIT
on cost for
the dealer.

Sole Manufacturers : **JOHN WATTS,**
Dept. 3, LAMBERT WORKS, SHEFFIELD.
London : 24, REDCROSS ST., E.C.1.
Established over 150 years.

DODGE & OLcott CO., **20 MARK LANE,**
LONDON, E.C.3.

THE "D & O" BRAND

is the "Standard of Quality" for

OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT,
SASSAFRAS, ETC.

BALSAMS of Copaiba, Peru, Tolu.

TONKA BEANS, Angosturas.

Phone—
CITY 2468.

Telegrams—
"EGDARF, FEN, LONDON."

EUGÈNE RIMMEL LTD.

PERFUMERS

By Appointment to their Majesties

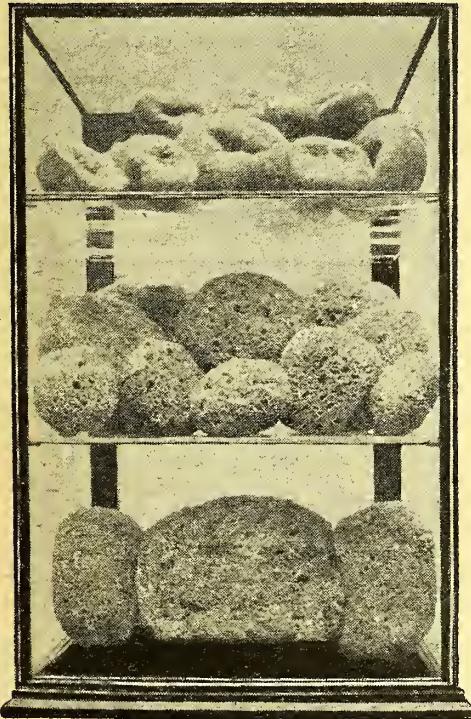
Queen Alexandra of England The King of Spain The Dowager Queen of Holland

Present their compliments to their many business friends throughout the world and have pleasure in informing them that they are exhibiting their well-known products at the

BRITISH EMPIRE EXHIBITION STAND No. A 16

situated in the
CHEMICAL SECTION OF THE INDUSTRIAL HALL.

EUGÈNE RIMMEL LIMITED will be delighted to receive their friends at this Exhibition and to give them every attention possible.



SPONGES that justify you in displaying them

*Buy from actual importers
and thus save intermediate profits*

*All goods sent on approval carriage paid.
Write for Prices and Type Samples.*

THE SPONGE FISHING & IMPORTING CO., Ltd.

25 Finsbury St., Chiswell St.
LONDON, E.C.

BUYING BRANCHES at *Sfax, Tripoli,
Kalymnos-Symi, Hydra, Batabano, Nassau and
Florida.*

SELLING BRANCHES at *Brussels, Paris,
Barcelona and Hamburg.*

'Phone : Clerkenwell 5428. Telegraphic Address :
"Sachiapas, Finsquare, London."

No connection with any 'Ring' or 'Combine.'

DEARBORN (1923) LTD.

37 Gray's Inn Road, London, W.C.1

Toilet Specialties.

	Price per doz.	Selling Price to Retailer P.A.T.A.
PILENTA SOAP	10/-	1/-
A complexion soap.		
PROLACTUM	10/-	1/-
For the lips.		
PARSIDIUM JELLY	10/-	1/-
For wrinkles.		
ALLACITE OF ORANGE		
BLOSSOM	22/6	2/6
A dressing cream.		
BORANIUM	22/6	2/6
A hair tonic.		
CLEMINITE	22/6	2/6
For a face lotion.		
COLLIANDUM	22/6	2/6
For a fact tint.		
PERGOL	22/6	2/6
A deodorant.		
TEKKO PASTE	22/6	2/6
Camphor cream.		
STALLAX	22/6	2/6
For a shampoo.		
JETTALINE	31/6	3/6
For clearing the skin.		
PHEMINOL	36/-	4/-
A depilatory.		
MENNALINE	36/-	4/-
For the eyelashes.		
MERCOLIZED WAX	18/- { 31/6	2/- 3/6
A face cream.		
STYMOL	36/-	4/-
For oily complexions and blackheads.		
SILMERINE	22/6	2/6
Hair-curling fluid.		
BARSYDE	22/6	2/6
Dandruff eradicator.		
TAMMALITE	22/6	2/6
For grey and faded hair.		
LIQUID PERGOL	31/6	3/6
To check excessive perspiration locally.		
BICROLIUM	22/6	2/6
For whitening the hands.		
COCONOIDS	31/6	3/6
For figure development.		

The Products of

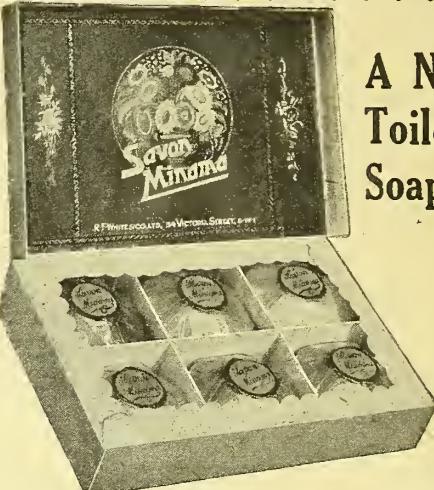
Messrs. PARKER, BELMONT & CO.

CLYNOL BERRIES	36/- For obesity.	4/- 6/6
SOFT PALERIUM	45/- For wrinkles.	5/-
LIQUID NAIL POLISH	10/- Brilliant and lasting.	1/-

Stocked by ALL Wholesale Houses.

COLONIAL DEPOTS AND AGENCIES.

Australia: ALL WHOLESALERS, & DEARBORN (Australia), Ltd., Grace House, Clarence Street, Sydney.
 South Africa: LENNON Ltd., Cape Town, etc.
 SIVE BROS. & KARNOVSKY, Johannesburg.
 India: FRAMJEE & SON, Bombay.
 A. L. CHOUDRY, Calcutta.
 New Zealand: SHARLAND & CO., Auckland and Wellington.
 South America: DEARBORN (South America) Ltd., Calla Salta 264, Buenos Aires.
 Straits Settlements & Federated Malay States: MEDICAL HALL, Ltd., Singapore.



A New
Toilet
Soap

A delightful series of Perfumes—Cellophane wrapped and a Show Container that strikes a new note.

**Savon
Minama**

R. F. WHITE & CO., LTD., The Non-Combine House,
34 VICTORIA STREET, LONDON, S.W. 1

JAKSON'S PEPPERMINT, LAVENDER & CAMOMILE OILS

are the BEST.

Produced and Prepared by
THE LARGEST GROWERS & DISTILLERS
IN ENGLAND.

Distillery :
J. JAKSON & CO. (Mitcham Rd., 1921), LTD.
Mitcham Road, WEST CROYDON.

AGENTS for the U.K.:
F. NEWBERRY & SONS, LTD.
27 & 28 Charterhouse Square, London, E.C.1

Millions of People

are being told in our
Press Advertising that

"To get the Pro-phy-lac-tic Tooth Brush, originated and made by the Florence Mfg. Co., of Florence, Mass., U.S.A., since 1880, look for the hyphenated word Pro-phy-lac-tic stamped on the

YELLOW BOX."

To an ever-increasing public our convincing advertising is driving home in the monthly, weekly, and daily Press the merits of the Pro-phy-lac-tic Tooth Brush in the sanitary **YELLOW Box**.

Let the public see the Pro-phy-lac-tic in your windows—and thus profit by this advertising.

Pro-phy-lac-tic Tooth Brush

Only in **YELLOW BOX**

*Manufactured by the Florence Manufacturing Co.,
Florence, U.S.A.*

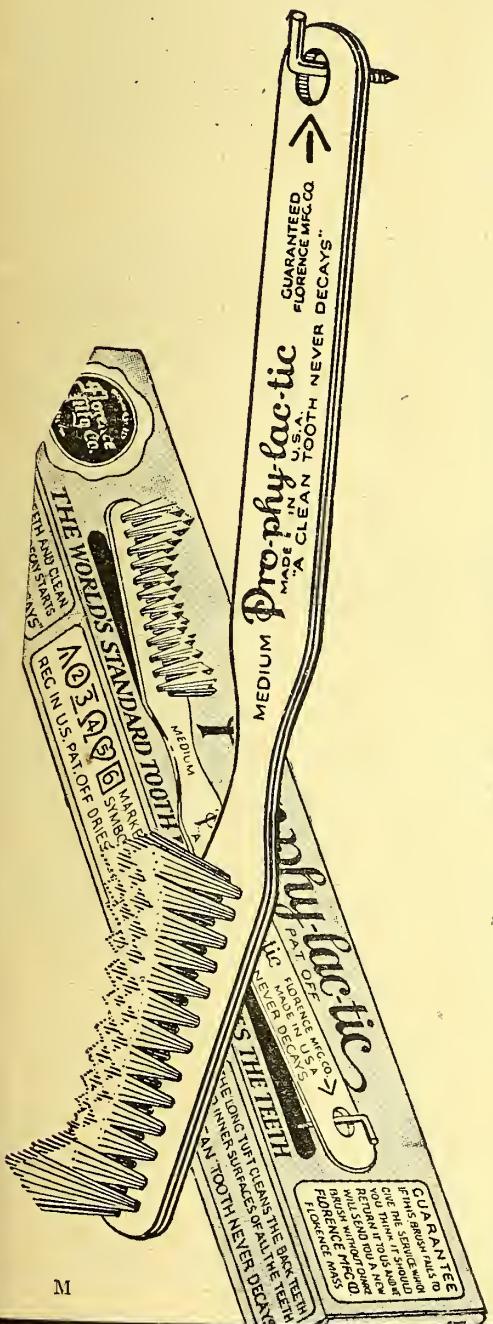
In 3 sizes—adult's, youth's, and child's; in 3 textures of bristles—hard, medium, or soft; one quality only—each in its individual **YELLOW Box** with hook for hanging.

Price to the Public 2/6

To the Retailer, a Full Trade Profit

Sold through the Wholesale Houses only

WM. E. PECK & CO., Inc.
31 Bartholomew Close - - LONDON, E.C.1



M

B B



STOCK SORBO— the Sponge with the Big Selling Story.

WHEN you can say of a sponge that it outlasts four ordinary sponges while costing less than one ; that its soft springy friction is unrivalled in promoting a healthy skin and fresh complexion and that *soap improves it*, you have got three big selling arguments which must—and do—prove irresistible.

Show Sorbo Sponges in your window, and get your share of the trade.

Sorbo sponge

THE MOST ABSORBENT RUBBER SPONGE

SORBO RUBBER-SPONGE PRODUCTS, LTD.

Sorbo Works :: Woking :: Surrey

Telegrams : Sorbo, Woking.

Telephone : Woking 666.

RETAIL PRICES

No. 1	...	...	1/-
No. 2	...	...	1/9
No. 3	...	...	2/6
No. 4	...	...	3/9

Bath Sizes:

No. 4R	...	...	5/-
No. 5	...	...	7/6

PARFUMS D'ORSAY

SOLE BRITISH AGENTS—

PARIS

S. NAMIAS' SONS

54 GEORGE STREET,
BAKER STREET, LONDON, W.1.



SHADEINE

For COLOURING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses. Trial Size 8d., per post 1d. 1/4 size, per post 1/7; 2/6 size, per post 2/10; 3/9 size, per post 4/3; 8d. size, 6/- doz.; 1/4 size, 12/- doz.; 2/6 size, 24/- doz.; 3/9 size, 36/- doz.

The SHADEINE CO., 58 Westbourne Grove, London, W.

The EVAN-WILLIAMS

ALWAYS IN GREAT DEMAND,
PRICE LIST ON APPLICATION.

The EVAN-WILLIAMS Co., Ltd., 14/15 Union St., W.1.

Telephone : 33411200

Telephone : Axminster 5.

Telegrams : "Coate, Axminster."

COATE & CO. (Axminster) Ltd.
The London Brush Works, Axminster, Devon.

Estab. 1847.

Manufacturers of Super British Brushes

Our Special "PROPHYLACTIC" Tooth Brushes, in Hard, Medium, Soft, and Yellow Hair, also Ex.H., in 3 row or 4 row, in Cartons, with customer's name and address, free for orders of 1 gross. Every Brush Guaranteed. British made throughout by British Labour.

SEND FOR OUR PRESENT LIST OF PRICES.

"4711"



EAU DE COLOGNE

R. J. REUTER COMPANY,
LTD., beg to announce that the
Advertising Campaign for "**4711**"
for 1924 has been increased con-
siderably as compared with the
Campaign for 1923.

Orders are now coming in from all parts of the country, and Chemists are advised not to delay ordering fresh supplies of "4711."



For special terms apply to :—

R. J. REUTER COMPANY, LTD.

69 Carter Lane - LONDON, E.C.4

Telegraphic Address : "Refreshing, Cent, London."
Telephone Numbers - - - Central 4461-4462.



We respectfully invite your enquiries
for all kinds of

PERFUMES IN BULK.

All our Perfumes are made with natural floral bases manufactured direct from the flowers in our own factories, and can be had in any degree of concentration.

THEY ARE EXCEPTIONAL IN
FINENESS AND DELICACY OF
BOUQUET.

We can supply any odour, and shall be pleased to submit samples of special bouquets for proprietary lines. For ordinary purposes we re-

Quadruple Extracts.

We shall also be pleased to quote for

EAU DE COLOGNES
AND
LAVENDER WATERS

We are actual distillers of Oils of Neroli, Lavender, Bergamot, &c., and our prices are based on the manufacturing costs of the oils.

SPURWAY ET CIE. LIMITED.

89 GREAT EASTERN ST., LONDON, E.C.2

Telegrams: "Neroli, London."
Telephone: Bishopsgate 1372.

Factories & Distilleries: Cannes-Grasse, Riviera.
Technical Laboratories: Paris.

NEW YORK.

KINGSTON (ONTARIO).

A SATISFIED CUSTOMER IS THE CHEMIST'S BEST ADVERTISEMENT

The Marvel Whirling Spray Syringe



Gold Medal Awarded, Paris, 1902,
by the Société d'Hygiène of France

as the latest and best improvement in Vaginal Syringes. Particular attention is called to the fact that by reason of its peculiar construction the Marvel Syringe dilates and flushes the vagina with a volume of whirling spray, which smooths out the folds and permits the injection to come into contact with and cleansing the entire surface.

Fully Protected by Patents.



You can safely recommend it.

Has no rival on the market, is well advertised, pays a good profit, quality guaranteed. The MARVEL is returnable for exchange if found defective and reported promptly.

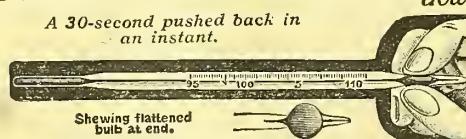
Trade price, 125/- per doz.

Retail price, 15/- each.

FASSETT & JOHNSON, Ltd.
86 Clerkenwell Road, London, E.C.1.

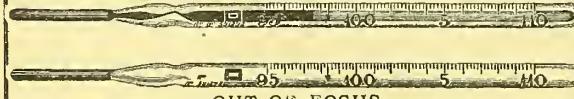
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A 30-second pushed back in
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NEW IMPROVED LENS FINDER

The only Easy Reading Magnifying Clinical on the Market.
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The square mark engraved on lens front
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All Clinical Thermometers are supplied
N.P.L. Tested unless otherwise ordered.

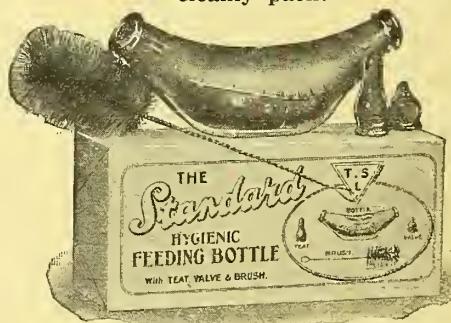
G. H. Zeal, Ltd., 77, St. John Street,
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Established 1888.

Wholesale Manufacturers of Clinical Thermometers.
Contractors to H.M. Government.

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Further Reduced Prices.

The "EMPIRE" Brand.

(Ordinary Pattern.)				s.	d.
Hospital pattern	per doz.	12 6
	lens front	"	14 0
60-seconds,	plain	"	15 0
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Each one in metal case, and packed in a specially designed card box with descriptive label on lid.

Customers can have their names engraved on any of the above Thermometers free of charge.

NOTE.—The above prices are for guaranteed best London Made Thermometers but which are NOT STAMPED at the National Physical Laboratory. If they are required so stamped (N.P.L.) the price will be 3/- per dozen more in each case.

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A discount of 5% for prompt cash is allowed on all amounts of 10/- and upwards; Money returned if goods are not satisfactory. Write for New Price Lists of Druggists' Sundries, Toilet Requisites, Rubber Goods, Cut Sheet Rubber Appliances, etc.

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“INGOT” quality throughout.

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1	Wooden box	"	..	16	0
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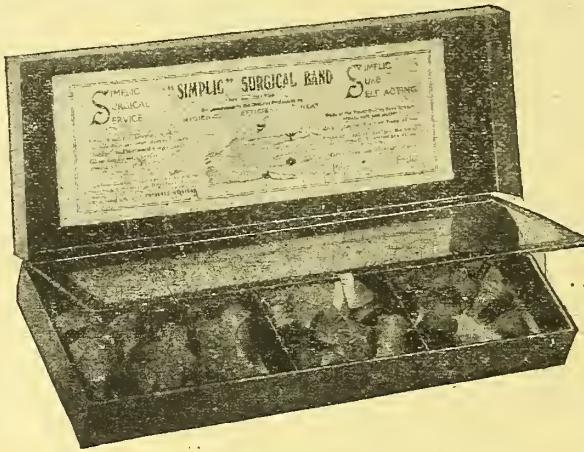
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EFFICIENT
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Keeps Plaster or
Dressing in place.

Allows necessary
Ventilation.

Displaces
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Prevents Corns
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Quality Rubber.

PACKED in HYGIENIC
GLASS TOP
DISPLAY BOXES
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side inwards will find that
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A. C. COSSOR & SON

Established 1859.

High Class Clinical Thermometers



PATENT



THE ACCOSON ASEPTIC CLINICAL.

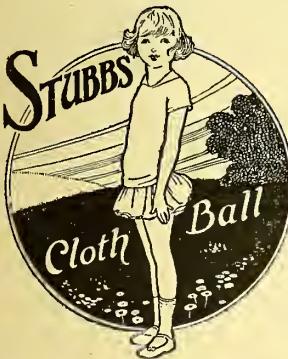
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17/- Per Dozen (Bottles Included).

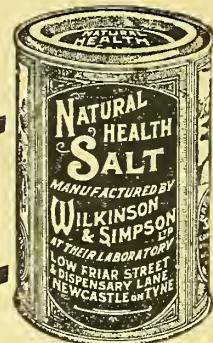
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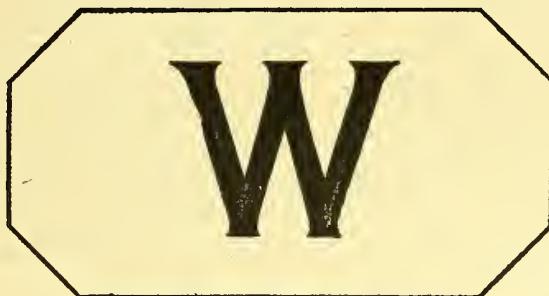
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Just try to imagine a pane of glass with the **flexibility** of Tissue Paper and you have Cellophane—the only **transparent** wrapping material, **absolutely** air, grease and odour proof, tasteless and **perfectly** innocuous.

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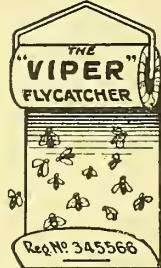
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The FLYSAC delights the customer who likes a flycatcher to be unobtrusive. The daintiest on the market. The pleated tape is freshly smeared in pulling it out for use.

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Send your order direct to the Maker to get best terms.



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DOOMO AIRSHIP FLY BAND



Write for quotations
A wide, long band,
sticky on both sides.

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DOG MEDICINES
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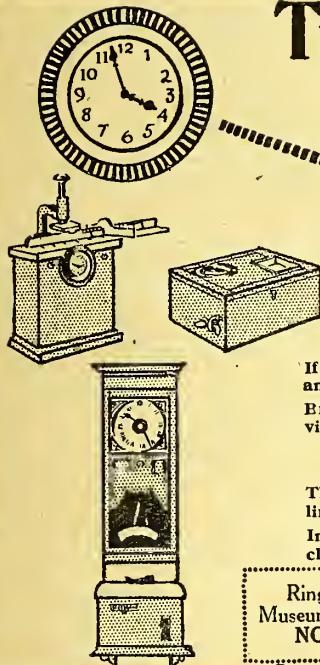
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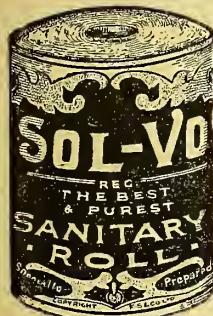
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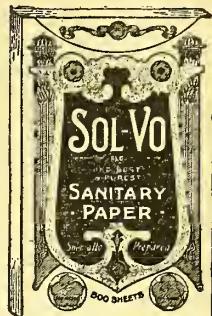
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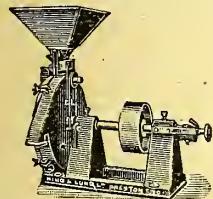
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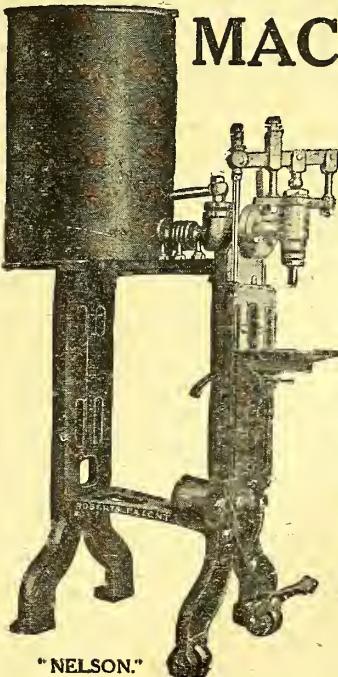
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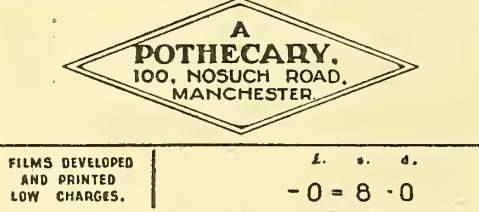
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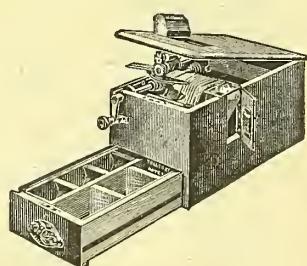
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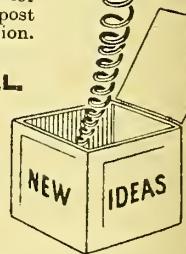
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The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessaries from him. Moreover, the retailer has a profitable return on a quick turnover.

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Effectively reminding passers-by of Musterole advertising ; clearly indicating you as the source of supply.

Why not send for a free supply—to-day?

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Remember—a sale lost now of

'RYTOL' or 'TANCOL'

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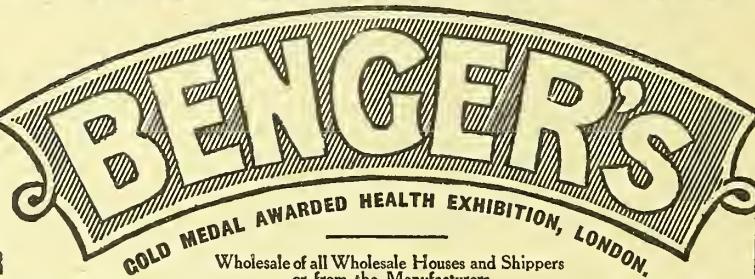
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AGED.

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THE City worker and holiday pedestrian
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Foot Shampoo that cools, soothes and stimu-
lates hot and tired feet. "Flitt" protects the
soles against soreness and the formation of hard
skin, and eliminates the unpleasant effects
of excessive perspiration.

FOOT COMFORT 1d. PER FOOT

"Flitt" is put up in liberal sized envelopes
containing sufficient for two shampoos, re-
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Carton of 2 dozen packets ... 5/4 per dozen.

your profit 33 1/3%

Let "Flitt" bring to your shop the further
goodwill of your customers by opening a new
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FREE THEM FROM FOOT TROUBLE

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THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in the Overseas Dominions.

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TWENTY SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single Copy, 9d., post free; *Diary*, 10s., post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martins, Ltd."

Prix de l'abonnement annuel : le journal une fois par semaine, et l'agenda une fois par an, 20s., francs.

TERMS FOR ADVERTISING may be obtained on application to the Publisher.

Head Office : 42 CANNON STREET, LONDON, E.C.4

Telegrams : "Chemicus, Cannon, London." Telephone : Central 3617 (3 lines).

Branch Offices : 49 County Buildings, 4 Cannon Street, Manchester. (Telephone : City 52.) **Melbourne and Sydney, Australia.**

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Business Changes

MR. H. A. BROWN, chemist and druggist, has opened a pharmacy in Aylesbury Road, Wendover.

MR. W. O. RICHARDSON, chemist and druggist, will shortly open a pharmacy at 49 Duke Street, West Hartlepool.

MR. E. H. G. BENNETT, chemist and druggist, son of the late Mr. Joseph Bennett, chemist and druggist, Bristol, has opened a business at 34 Norwich Road, Ipswich.

MR. C. H. TRACY, chemist and druggist, has purchased the business of Mr. H. E. Smith, chemist and druggist, 5 Norman Road, St. Leonards-on-Sea, who has been in business at that address for upwards of forty years.

MR. DAVID ALEXANDER BISSET LEADBETTER, chemist and druggist, of Balnacraig, Station Road, Lochgelly, who died on April 14, left personal estate valued at £4,499 11s. 11d.

English and Welsh News

The Editor would be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

British Empire Exhibition

The British Empire Exhibition, preliminary particulars of which appeared in THE CHEMIST AND DRUGGIST, April 12, pp. 534 et seq., was opened by his Majesty the King on April 23. Accompanied by the Queen, the Duke and Duchess of York, Prince Henry, and Prince George, his Majesty travelled by road from Windsor, changing into a state carriage *en route*. The Royal party was received at the Stadium, Wembley, by the Prince of Wales, President of the Exhibition, and the ceremony took place in the presence of Ministers of State, official representatives of the Dominions and Protectorates, and picked men from the services, home and Colonial. The gathering in the Stadium was estimated at 120,000, and by means of wireless loud speakers the voices of his Majesty and the Prince were heard all over the Exhibition grounds, in London, and in most parts of the provinces. In the course of his speech, the King said :—

We believe that this Exhibition will bring the peoples of the Empire to a better knowledge of how to meet their reciprocal wants and aspirations, and that, where brotherly feeling and the habit of united action already exist, the growth of inter-Imperial trade will make the bonds of sympathy yet closer and stronger. Business relations between strangers may or may not lead to friendship; co-operation between brothers for the better development of the family estate can hardly fail to promote family affection.

Although THE CHEMIST AND DRUGGIST was represented at the ceremony, those members of the staff who were in the office decided to listen-in, and through the medium of a wireless set and a loud speaker brought by one of their number heard the proceedings quite clearly.

Animals (Transit and General) Amendment Order, 1924

The Minister of Agriculture and Fisheries has issued an Order (No. 3,388), dated April 1, revoking Part II of a similar Order of the year 1912, and substituting fresh provisions as to the cleansing and disinfection of animals. The manner of disinfection prescribed in the new Order (Clause 26) is as follows :—

The place or thing, or the part thereof, required to be disinfected shall be thoroughly coated or washed with :—

(a) A 1 per cent. (minimum) solution of chloride of lime containing not less than 30 per cent. of available chlorine; or
(b) A 4 per cent. (minimum) solution of carbolic acid (containing not less than 95 per cent. of actual carbolic acid); or
(c) a disinfectant equal in disinfective efficiency to the above-mentioned solution of carbolic acid.

The Order is to be read with the Animals (Transit and General) Order, 1912, and any contravention of it is to be regarded as an offence against the Diseases of Animals Act, 1894.

Dried Milk Regulations

The Regulations issued on November 5, 1923, by the Minister of Health, defining dried milk and providing for its adequate labelling, come into operation on May 1. A summary of these Regulations was given in the *C. & D.* 11, 1923, p. 696; the official text is obtainable at the Stationery Office, together with an accompanying circular (price 2d. and 1d. respectively). We learn that Regulations identical in their effect have been issued by the Scottish Board of Health.

City of London Health Report

The latest annual report of the medical officer of health for the City of London, covering the year 1923, co-ordinates matters that have been noticed in our columns in detail as they occurred, and for that reason demands less extended notice than the intrinsic merits of so important a document would otherwise justify. The particulars of samples taken under the Sale of Food and Drugs Acts, now available for the whole year, show that

six informal and two formal samples of "drugs" were found to be adulterated; the respective totals of those taken were nineteen and two. Several other drugs and chemicals were sampled. The total number of patients registered as receiving treatment for venereal diseases at the treatment centre is 602, the same as that of the previous year. Concerning rat repression, Dr. Howarth records that poisons were used by 382 firms, and notes that the work of repression "would appear to be having an effect on the rat population. . . . The reduction is probably not striking, but if it can be made progressive it will be a source of satisfaction." He regrets, however, that the Rats and Mice (Destruction) Act, 1919, fails to recognise the difference between the work necessary in rural districts and that to be carried out in urban areas: "the problems . . . are totally dissimilar in major respects." So far as the City is concerned, a proposal for the provision of a central laboratory at which all the bacteriological work of the Metropolitan borough councils could be carried out is not viewed with favour by the medical officer, much of such work done for the corporation being of a special character and relating to issues involving thousands of pounds, while the number of routine examinations is exceedingly small.

Public Institution News

Poor-law hospitals have had a busy winter, and the addition of consultants to many of the staffs has resulted in extra work being thrown on the dispensing department. A move is being made to get assistant pharmacists appointed at institutions which at present are carried on by a chemist single-handed.

The following tenders have been accepted by the bodies named:

East Preston Guardians.—Boots, Ltd., drugs, etc.

St. Pancras (London) Guardians.—Thomas Hodgkinson, Prestons & King, drugs; S. Maw, Son & Sons, Ltd., surgical instruments and sundries; Sangers, proprietary articles; Leslie, Ltd., S. Maw, Son & Sons, Ltd., T. J. Smith & Nephew, Ltd., dressings; Self-Controlled Air Cushion Co., Ltd., india-rubber goods.

Birmingham

The glass trade in the Midlands is alarmed at the possible withdrawal of the key industry duties.

At a meeting of the Natural History and Philosophical Society, on April 22, Mr. O. T. Elliott (Philip Harris & Co. (1913), Ltd.) gave a lecture on "Life."

The Lord Mayor has sent a letter of thanks to those who have assisted in the work connected with the Unemployment Distress Fund, which is now closed. Among the recipients of letters is Mr. F. H. Alcock, F.I.C., Ph.C., as chairman of the committee of the King's Heath Branch.

Liverpool

Some "Rexall" retailers are offering two shaving sticks (usually 1s. each) for 1s. 1d.

"The division among pharmacists," writes a correspondent, "will soon filter down to one of autocar owners and non-owners." By their cars ye shall know them, as it were.

Deep sympathy is extended to Mr. Lewis E. Thomas, ex-President of the Wallasey Chemists' Association, who has lost his only daughter, aged twenty-three, through pneumonia.

The Hanover Street and Northern travelling staffs of Evans's united recently in a social evening at the Angel Hotel. All the talent was drawn from within, and revealed powers which gave pleasure throughout a varied programme.

"The cost of this prescription is 1²d." Such was the footnote (added by a man of some professional experience) to a prescription sent to a local pharmacy. The prescription contained four ingredients, including potassium iodide, and required a bottle costing 2²d.

Mr. William Harper, 119 Stanley Park Avenue, Anfield, is now representing in Lancashire, Cheshire, North Wales and the Isle of Man various manufacturing houses,

including the Harrogate Tablet Co., Ltd., C. Zimmermann & Co. (Chemicals), Ltd., R. F. White & Co., Ltd., and also makers of film cameras, photographic sundries, glass bottles, etc. Mr. Harper is well known throughout this territory, as well as in the Midlands and the North.

Mr. H. Humphreys Jones, A.I.C., Ph.C., principal of the Liverpool School of Pharmacy, has sent our Liverpool contributor the following characteristic elucidation of the difficulty over the recent Eisteddfod meetings (*C. & D.*, April 19, p. 554): "I got a shock this morning when I found that I was not the H.H.J. that presided at the Eisteddfod. As far as I know it was *I* that walked there, appeared on the platform and delivered an oration. Or am I under a delusion? I have been wondering if some other fellow has commandeered the old carcase that acted as a covering for one that was believed to be H.H.J. If so, the question arises: What has become of the other fellow? There is another difficulty: Who is writing now? . . . I presided at one Eisteddfod meeting and an Humphrey W. Jones at another." Mr. Humphreys Jones adds to his signature: "Original. Beware of imitations."

Manchester

April 30 is the date for the opening of the three matches which are to be played between Manchester and Liverpool chemist golfers, and Wallasey is the venue.

Having taken a draught of lysol in mistake, Herbert Miller, Ossory Street, Oldham Road, died shortly after being admitted to Ancoats Hospital on Easter Monday.

At an inquest held in Manchester, on April 23, on the body of a workman named John Allen, the coroner recorded a verdict to the effect that death was due to handling pitch in its solid state. The medical evidence was that Allen's life might have been saved if he had submitted to a medical examination.

At the Lancashire Chancery Court, recently, the Manchester and District Radium Institute, Nelson Street, were granted an injunction to restrain Abraham Laseron, proprietor of the Radium Therapy Co., Deansgate, his servants and agents, from carrying on business under the name of the Radium Institute; from referring to the Institute or its directors in such a manner as to cause confusion between the two businesses; and from trading upon the name and reputation of the plaintiff company or its directors. It was stated, on behalf of the plaintiffs, that their company was in the nature of a charitable one. Defendant, a naturalised Russian, used the words "Radium Institute," and referred to the directors in a way calculated to create confusion. Mr. Easton, for Mr. Laseron, said he consented to judgment.

Sheffield

Mr. H. Bown, chemist and druggist, Cemetery Road, is studying for medical degrees at Sheffield University.

General opinion considers that trade is improving in the city. For several months past, Insurance work has been making records.

Mr. A. Ellis, chemist and druggist, manager of Ellis & Co. (Chemists), Ltd., 288 Ecclesall Road, is opening a business in Gibraltar Street.

Mr. V. W. Wood, chemist and druggist, 7, Highfield Street, Cheetham, Manchester, is opening a business at 323 Middlewood Road, Hillsborough.

A booklet is to be published for boys who have nearly finished their scholastic education explaining the qualifications necessary in various professions and trades, including pharmacy.

An herbarium prize for plants collected between April and September is being offered for competition among students by the President of the Sheffield Pharmaceutical and Chemical Society, Mr. H. B. Hammond.

Miscellaneous

LONDON VAN HORSE PARADE.—At the annual parade of the London Van Horse Parade Society, held in Regent's Park on Easter Monday, the two entries of Burroughs

Wellcome & Co. were respectively awarded a first and a second prize.

CHARGE OF POISONING.—At Woking Police Court, on April 21, Jean P. Vaquier, described as an engineer and inventor, was remanded on a charge of murdering Alfred G. P. Jones, a local licensee, by the administration of strychnine. The evidence was of a formal nature.

IN THE COURTS.—At London Sessions, on April 17, John G. Miller, cook, was sentenced to six months' hard labour for offences that included breaking into a Clapham chemists' shop and stealing opium, which he disposed of.—At Rochdale Police Court, recently, John Stephenson, ship's cook, was remanded on a charge of breaking into the premises of Mr. Henry Holt, chemist and druggist, Yorkshire Street, with intent to commit a felony.

FIRE.—There was an outbreak of fire, due to the fusing of an electric wire, at the premises of Boots, Ltd., Blackburn Road, Accrington, on April 19. It was soon extinguished, and the damage was slight.—An outbreak of fire at the premises of Mr. W. Martin, Ph.C., High Street, Southampton, on April 23, was caused by an electric lighting wire igniting the gas. The outbreak was quickly extinguished, and the damage was not of an extensive nature.

WINE-LICENCE APPEAL.—At Salford Hundred Quarter Sessions, on April 15, Mr. G. Brown, chemist and druggist (Waller & Riley, Ltd., chemists), Bury, appealed against the refusal of the local justices to renew the licence for the sale of wines and spirits at 22 Rock Street. It was stated that the licence was refused on the ground that there was ample accommodation for such purchases. Mr. Brown said the business in these articles amounted to £1,900 a year. The appeal was dismissed with costs.

Scottish News

Brevities

The number of travellers now carrying sundries and catch lines is increasing.

The death of a number of dogs in the Liberton district of late is attributed to strychnine poisoning.

Mr. A. S. Pool, chemist and druggist, Grove Street, Glasgow, has passed the third examination for the triple qualification in medicine.

Mr. W. A. Watson, chemist and druggist, Grantown-on-Spey, has been appointed by the Meteorological Society to take observations of local rainfall.

At Airdrie Police Court, on April 17, Alexander Walker, described as a herbalist, Coatbridge, was fined 30s. for selling methylated spirit without a licence.

Among the prize-winners in the window-dressing competition in connection with the Paisley shopping carnival were J. Macduff & Co., chemists, High Street, in the class open to chemists, jewellers and opticians.

Mr. C. F. Murdoch, youngest son of Mr. W. S. Murdoch, chemist and druggist, Garmouth, has been granted the L.D.S. diploma of the Royal College of Surgeons, Edinburgh. This is Mr. Murdoch's third son to qualify as a dentist.

Fife

Dispensing has been heavy during the past six weeks, the weather and influenza being the chief contributing factors.

At Dunfermline Sheriff Court, recently, a labourer named McGuire was sentenced to ten days' imprisonment for breaking into the premises of Mr. J. Patrick, chemist and druggist, Kincardine-on-Forth.

Many chemists have replenished their stock of winter lines recently, an uncommon procedure at period of the year. The number of wholesalers who deliver orders by motor continues to grow, and the system is fully appreciated by retailers.

Irish News

Brevities

Mr. W. A. Gray, R.D., Ogle Street, Armagh, has had his premises extensively altered and enlarged.

Mr. F. T. Smith, J.P., R.D., Antrim, has been appointed Vice-President of a new Rugby Club established in the town.

Belfast

At the Police Court, on April 17, James Gillespie, R.D., Woodvale Road, was fined 40s. and costs for keeping for sale a quantity of whisky.

Londonderry

An exhibition of the prize-winning photographs at the recent Ulster Arts Exhibition in Londonderry is being made in the window of Mr. H. E. Young, Ph.C., Strand.

Craig & Wellwood, Ltd., chemists, Ferryquay Street, have obtained the contract for the supply of disinfectants and medicines to the Public Health Department of Londonderry Corporation.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Wednesday, April 30

Birmingham Pharmaceutical Association and Branch of the Pharmaceutical Society, Imperial Hotel, at 8.30 p.m. Lantern lecture. Mr. F. L. Jenkinson on "Derwent Water, Queen of English Lakes."

London (Western) Pharmacists' Association, Portman Rooms, Baker Street, W., at 7.30 p.m. to 11.30. Dance. Tickets (6s. 6d. each) from W. B. Fallding, 5 Sussex Place, South Kensington.

Manchester Pharmaceutical Golfing Society, Wallasey Golf Club. Manchester v. Liverpool.

Pharmaceutical Society of Great Britain (Edinburgh and South-Eastern Scottish Branch), 36 York Place, at 3 p.m. Annual meeting. Mr. E. T. Neathercoat (President of the Society) will address the meeting.

Pharmaceutical Society of Great Britain (Exeter Branch), Royal Clarence Hotel, at 7.15 p.m. Annual dinner. Tickets (8s. 6d. each) from Messrs. A. C. Milton and F. Southerden.

Pharmaceutical Society of Great Britain (Portsmouth Branch), Southsea Club, at 3 p.m. Annual meeting, at which Sports Club will be formed.

Thursday, May 1

Chemical Society, Burlington House, Piccadilly, London, W.1, at 8 p.m. Paper on "Iminodihydro-1:2:3-triazole," Part II, by H. W. Curnelley and P. K. Dutt.

London Chemists' Golfing Society, Enfield.—Burgoyne Cup : 1st round, medal play. Hill Cup : 2nd round, bogey play.

Pharmaceutical Society of Great Britain (Glasgow and South-Western Scottish Branch), Grand Hotel, Charing Cross, Glasgow, at 7.45 p.m. Special meeting. Mr. E. T. Neathercoat, C.B.E., President of the Society, will give an address.

Pharmaceutical Society of Great Britain (North Metropolitan Branch), Connaught Rooms, Great Queen Street, W.C.2, at 7 p.m. Annual meeting. From 8 to 12, annual social and dance. Members free; visitors' tickets, 5s. each, to cover refreshments.

NOVEL WINDOW ATTRACTION.—In the window of Morgan Brothers, chemists, Caledonian Road, London, N., says the "Star" of April 23, is being shown a Dunkley baby carriage presented by the paper to the parents of quadruplets. It is not surprising that the window is constantly surrounded by a crowd.

CHEMIST COMMENDED AT INQUEST.—In the course of a recent inquest held in East London on the body of a widow, who died from scalds, it was stated in evidence that the deceased had gone to a chemist for treatment, but he refused it and told her to go to a doctor. "I don't know who the chemist was, but I should like to commend him," remarked the coroner, "because chemists too often light-heartedly undertake treatment which should be carried out by a doctor. This chemist had knowledge and sense."

Legal Reports

Warranty as Defence.—At Salford Police Court, on April 15, Marion Monk (trading as C. W. Monk, chemist), 102 Cross Lane, was summoned for selling almond oil alleged to be not of the nature, substance and quality demanded. Mr. R. H. Wright, prosecuting, said that an inspector called at the defendant's premises and asked for 2 oz. of almond oil. A portion was sent to the borough analyst who certified: "I am of opinion that the sample contains percentages of foreign ingredients as under—100 per cent. of peach-kernel oil." The analyst added: "Peach-kernel oil is very similar to almond oil in its properties; its price is usually about half that of the latter." Following the service of the summons, the town clerk received a letter from the defendant explaining that the drug was supplied by Hough, Hoseason & Co., Ltd., and the invoice subsequently delivered contained a guarantee that the drug was of the standard of the British Pharmacopeia. Mr. H. Collings, for the defendant: I am relying upon the warranty, under which my client claims exemption from this summons. Counsel for the manufacturing chemists admitted that they supplied the goods, and said they took responsibility. Mr. Arnold Adcock, chemist and druggist, manager for Mrs. Monk at the shop in question, said that on February 11 he received certain drugs; the invoice followed four or five days after. Replying to Mr. Wright, witness said that the defendant had had continuous dealings with the manufacturing chemists, and had been receiving the guarantee over a period of at least four years. Asked by the stipendiary magistrate if the oils were like each other, witness said it was difficult to tell the difference except by chemical tests. The case was dismissed.

Safety Razor Blades.—At Bow Street Police Court, London, on April 16, Lewis Freedman, described as a clerk, surrendered to his bail to answer charges of obtaining money by false pretences in connection with the sale of razor blades. (The previous hearing was reported in THE CHEMIST AND DRUGGIST, April 12, p. 514.) Mr. Herbert Musket now conducted the prosecution on behalf of the Commissioner of Police; Mr. C. A. Collingwood, barrister, appeared for the defence. Mr. Musket said that the accused, who was little more than a boy, seemed to have started on a criminal career which perhaps this prosecution might cut short. He appeared to have devised an elaborate and scientific form of fraud. Noticing in THE CHEMIST AND DRUGGIST, a well-known and a very reputable journal, that Mr. Alfred Franks, 23 Bartlett's Buildings, E.C., was advertising Gillette blades for sale, he thought he would advertise in a name so similar as to be likely to mislead people who wished to deal in this class of article. In the issue of THE CHEMIST AND DRUGGIST of January 26, in which the genuine advertisement of Mr. Alfred Franks appeared, there was on another page an advertisement in the name of L. Franks, general merchant, Cromwell House, High Holborn, an address which was not far from Bartlett's Buildings. That advertisement offered one box containing ten dozen genuine U.S.A. blades at 28s. 3d. a dozen, three boxes at 27s. 4d. a dozen, and five boxes at 26s. a dozen. What Freedman appeared to have done was to have purchased very considerable quantities of these Gillette blades from a man named Arnold Johanning, who carried on business as Diamond Edge, Ltd., New Cut, and was in the habit of advertising for second-hand blades, which he resharpened and sold again. If it became necessary the prosecution would be able to prove transactions between the prisoner and Mr. Johanning, involving many hundreds of dozens of second-hand and, for all practical purposes, useless Gillette blades. Two cases had already been gone into, and it was now proposed to place before the Court five other charges of an exactly similar character, in which persons in distant parts of the country had seen the prisoner's advertisements and, believing that they were dealing with a reputable and honest trader, and that these were in fact new and useful blades, had entered into transactions with him and sent him money.

In most of the cases the goods they received were absolutely useless. Mr. Musket added that in view of Freedman's youth the prosecution was prepared to consider any suggestion which his counsel, after hearing the evidence, might make with the object of avoiding a lengthy inquiry. Mr. F. P. Evans, tobacconist and fancy dealer, Abertillery, who gave evidence at the previous hearing, was recalled for the purpose of producing correspondence which had passed between the accused and himself. In cross-examination, the witness said his complaint was that the blades he received were not new. They were dirty and absolutely unsaleable. He tried a few himself and they would not shave him, although he usually used Gillette blades. Mr. Collingwood: Is it your experience that Gillette blades invariably shave you?—Yes, a new blade invariably shaves me. Arthur Moore, a taper engaged in the cotton trade, Selous Street, Blackburn, stated that he saw the advertisement of L. Franks in the "World's Fair," and sent an order for 200 dozen blades and a money order for £23 6s. 8d. The blades he received were resharpened Canadian blades, badly packed and quite unsaleable. Letters of complaint which he wrote were returned through the Dead Letter Office. The magistrate remarked that he saw the prisoner described himself as a general merchant. Was there any evidence that he dealt in anything except Gillette blades? Mr. Musket: He had no stock at all. He simply occupied a room 6 ft. by 4 ft. Mr. John Thomas Pick, druggist and fancy dealer, Raglan Street, Coventry, deposed that he saw L. Franks's advertisement in THE CHEMIST AND DRUGGIST, and sent an order for fifty dozen blades, with a cheque for £6 10s. 10d. The blades which were sent were resharpened blades in dirty envelopes, and quite unsaleable. Similar evidence was given by Mr. Charles Henry Welton, chemist and druggist, Smithford Street, Coventry, and Mr. William John Aldous, London Road, Dover, each of whom had paid £4 2s. for thirty dozen blades. Mr. Edward Oscar Banner (Banner's Pure Drug Co., Ltd., Smithdown Lane, Liverpool) said he ordered 100 dozen blades and sent a cheque for £13 1s. 8d., but did not receive anything. He had previously dealt with Mr. Alfred Franks, of Bartlett's Buildings, whom he had known as a reputable trader for years; and not having read the advertisement very carefully, he believed it was the same person he was writing to on this occasion. The hearing was adjourned until April 30, the same bail as before being allowed.

Bankruptcy Reports

Re Percival Leonard Marsh, trading as the New Mill Pharmacy, 3 Holmfirth Road, New Mill, Huddersfield, "pharmacy proprietor."—The first meeting of creditors was held on April 14 at Huddersfield. The statement of affairs showed gross liabilities £477 1s. 3d., of which £469 8s. 7d. was expected to rank, against assets £32 15s. 11d. The matter was left with the official receiver as trustee.

Re N. C. A. Onwchand, casein manufacturer, late of 24 Great Dover Street, London, S.E.—The first meeting of creditors was held on April 17 at the London Bankruptcy Court. The debtor, a Dutch subject, has stated that he came here from Paris in 1903, and four years later formed the British Casein Co., Ltd., which in turn was taken over in 1911 by the British Casein Co. (1911), Ltd. The debtor was appointed managing director, and held that post until the company went into compulsory liquidation last May. It is in respect of a judgment obtained against him for money lent by the company that the debtor explains his failure. He returns that debt at £1,508, and the only other liability is for income tax, £250. The case was left with the official receiver.

Cost of Living.—Official figures give the cost of living on April 1 as approximately 73 per cent. above that of July 1914, as compared with 78 per cent. a month previously, and 74 per cent. a year ago.

New Companies

and Company News

P.C. means Private Company and R.O. Registered Office.

C. F. MILES & Co. (BIRMINGHAM), LTD. (P.C.)—Capital £500. Objects: To adopt an agreement with H. J. Mainwaring and C. F. Slim, and to carry on the business of drysalters, oil and colour merchants, druggists, etc. The directors are:—C. F. Miles and A. Slim. R.O. 109 Lionel Street, Birmingham.

SOZOL (1924), LTD. (P.C.)—Capital £4,500. Objects: To carry on the business of manufacturers of and wholesale and retail dealers in all kinds of chemical preparations, particularly the preparation known as "Sozol." The directors are: F. L. Gibbs, M. H. Spurway, and S. Cole. R.O. : 20 Copthall Avenue, London, E.C.

PASMORE CASSIDY, LTD. (P.C.)—Capital £500. Objects: To carry on the business of chemists, druggists, drysalters, oil and colour men, dealers in proprietary articles, toilet requisites, chemical, photographic, surgical and scientific apparatus and materials, and medicated wines, etc. The directors are: J. P. Cassidy and R. H. Trickey, jun. R.O. : 93 Mortimer Street, London, W.1.

MARNS & EDKINS, LTD. (P.C.)—Capital £1,000. Objects: To carry on the business of dispensing and photographic chemists carried on by T. Marns and R. F. Edkins at 11 Elm Park Parade, North Acton, and to carry on the business of chemists, druggists, opticians, drysalters, oil and colour men, etc. The directors are: T. Marns and R. F. Edkins. R.O. : 22 The Green, Ealing, London, W.5.

DUNN'S DRUG STORES, LTD. (P.C.)—Capital £500. Objects: To take over Dunn's Drug Stores at 30 Cardiff Road, Newport, Mon., and to carry on the business of chemists, druggists, drug-store proprietors, opticians, stationers, wine merchants, dealers in photographic supplies and fancy goods, etc. The directors are: C. J. H. Dunn, F. G. Young, and Lilian M. Dunn. R.O. : 30 Cardiff Road, Newport, Mon.

FRANCIS WILLIAMS OIL Co., LTD. (P.C.)—Capital £20,000 in £1 shares. Objects: To take over and carry on the business of an oil and colour merchant carried on by F. H. Williams at Bristol Street and Wrentham Street, Birmingham, as the Francis Williams Oil Co., and to carry on the business of glass merchants and manufacturers, chemists, druggists, etc. The directors are: H. E. Heath and F. H. Williams. R.O. : 100, 102 and 104 Bristol Street, Birmingham.

FRESCOTT & Co., LTD (P.C.)—Capital £5,000. Objects: To carry on the business of manufacturers of and dealers in horse, cattle and poultry foods, medicines, condiments, ointments, oils, greases, soaps, disinfectants, polishes, embrocations and powders, corn, seed, cake and tillage merchants, bone crushers and merchants, farmers and cattle dealers, etc. The directors are: W. J. Scott, A. W. Knowles, and J. A. Frearson. R.O. : 4 Sunny Bar, Doncaster. [Corrected notice.]

MENTHOLATUM Co., LTD. (P.C.)—Capital £24,000. Objects: To acquire the British branch of the business of the Mentholatum Company, Incorporated, of Delaware, U.S.A., now carried on at Slough, Bucks, including the registered trade-mark "Mentholatum" and certain other trade-marks, and to carry on the business of manufacturers of, agents for, and dealers in proprietary medicines and foods and medicinal preparations of all kinds, ointments, pills, powders, tablets, soaps, creams, skin preparations and other toilet requisites, makers of and dealers in packing cases, boxes, cachets, cartons, bottles, jars, drums and other receptacles, etc. The directors are: A. T. Hyde, E. K. Hyde, A. Hyde, C. H. Hyde, P. H. Hyde, G. A. Hyde, T. W. D. Turner, and Florence I. Billinge. R.O. : 7B Building, Fairlie Road, The Trading Estate, Slough.

C. J. HEWLETT & SON, LTD.—Mr. Vivian C. Hewlett, Ph.C. has been elected chairman, in succession to his late father, Mr. John C. Hewlett, F.C.S.

LANOLINE EXTRACTORS, LTD.—At a meeting held in London on April 15 it was resolved that this company be wound up voluntarily. Mr. H. C. Hankins, 62 London Wall, E.C., was appointed liquidator, and a meeting of creditors will be held at the above address on May 2. It is officially announced that all creditors have been or will be paid in full.

LIGGETT'S INTERNATIONAL.—The report for 1923 of Liggett's International—the United Drug subsidiary which holds a controlling interest in the Boots Pure Drug Company—shows a considerable improvement in the general position, and the "A" and "B" common stocks, which got nothing in 1922, now receive 3 per cent., compared with 6 per cent. in 1921. This means (says the "Financial Times") that the United Drug had its income augmented last year by \$165,000 from this source alone. The revenue from holdings has risen from \$1,582,000 to \$1,659,400, while other income has jumped from \$3,600 to \$1,699,900, though how this is made up the preliminary statement does not indicate. The net result is a profit of \$3,057,700, against \$1,312,100. After allowing for the preferred and common dividends, the accumulated surplus carried forward is \$2,165,000, an increase of \$1,810,600.

BRITEX CHEMICAL PRODUCTS, LTD.—A meeting of the creditors of this company was held in London recently. According to the statement of affairs, the liabilities amount to £5,503 4s. 3d., of which £3,112 5s. 9d. is due to unsecured trade creditors. The total assets are valued at £2,679 8s. 3d. The company was incorporated in June 1922 with a nominal capital of £14,000, which amount was later increased to £25,000. In answer to a question as to who the shareholders were, the liquidator said they were for the most part directors. Mr. Stevens, Mr. Wright Anderson, and Colonel McClean, who were all directors, held 4,000, 1,000, and 1,000 preference shares respectively. From July 1, 1923, to March 31, 1924, a loss was shown of £8,595 18s. 6d. During the period from June 1922 to July 1923 the loss was £5,388. The company had lost a great deal of money in advertising: there was no doubt, however, that the Britex disinfectant was becoming well known. The company also produced a moth killer. It was decided to leave the matter in the hands of the present liquidator. The following are among the creditors: Westminster Press, £1,000; Evans Sons Lescher & Webb, Ltd., £23.

PARKE'S DRUG STORES, LTD.—The report of the directors for the year ended February 29, 1924, states that during the year the new premises at Rickmansworth have been opened. Also the freehold of the premises at 31 Berrylands Road, Surbiton, and that of the branch at 1 Electric Avenue, Brixton, have been purchased. The company have also acquired a new branch in Watling Street, Radlett, and the business at Putney has been removed from 141 High Street to 86 High Street. Since the preparation of the report the chemist's business at 41 Bridge Street, East Molesey, has also been purchased. The sum of £621 2s. 2d., required for the depreciation of leases, has been met, as usual, out of revenue, as well as £1,084 9s. 5d. expended on repairs and renewals. After allowing for the above, there remains a balance of £8,710 13s. 11d., out of which the directors have appropriated for the fixtures depreciation and stock reserve fund £594 10s. 9d., leaving a net available balance of £8,116 3s. 2d., from which has been paid an interim dividend on the preference shares, at the rate of 6 per cent. per annum, less income tax, and an interim dividend on ordinary shares of $2\frac{1}{2}$ per cent., less income tax. The balance is £5,425 6s. 9d., and from this the final dividend on preference shares for the year, amounting to £1,190 16s. 5d., was paid on March 20 last; it is now recommended that a final dividend of 5 per cent., less income tax, be paid on the ordinary shares for the half-year, making with the interim dividend of $2\frac{1}{2}$ per cent., less income tax, already paid, $7\frac{1}{2}$ per cent. for the year; leaving a balance of £1,234 10s. 4d. to be carried forward. Upon passing the present accounts and the adoption of the report, the reserve funds will stand at £26,837 14s. 2d. The retiring directors are Mr. Darryll Warnford-Davis and Mr. Thomas Chatto, who, being eligible, offer themselves for re-election.

Council Candidates

II

We commenced in our last week's issue (p. 574) the publication of biographical details respecting the nine candidates for the seven positions on the Council of the Pharmaceutical Society that become vacant next month, together with their views on pharmaceutical politics. The two whose contributions appear below are already members of the Council; Mr. F. Pilkington Sargeant has served for several years past, and Mr. James Jack was co-opted a few weeks since to fill the vacancy caused by the death of Mr. A. Sidney Campkin. The relations of the retail-drug trade to statutory enactments and regulations will, no doubt, cause the manifestoes of all the candidates to be scanned with particular interest.

Mr. James Jack

served his apprenticeship with Shield & Mill, Arbroath, and gained further experience with Duncan, Flockhart & Co., Edinburgh. He passed the Major examination in 1886, and after a time became associated with his old Arbroath firm as partner and eventually as sole proprietor. Mr. Jack has been a member of the Executive of the Pharmaceutical Society's North British Branch for a long period (of late years at the head of the poll in the elections), and in 1919 was elected chairman; he has also been an examiner to the Society in Edinburgh. When the Scottish Pharmaceutical Federation was inaugurated in 1919, Mr. Jack was elected President, an office that he has held continuously since. He has done original work on marine algae, and in recognition was made F.L.S. As a justice of the peace and a member of various public committees, he has contributed largely to the welfare of his town, while in Freemasonry he is a Past Master of his lodge. On two occasions Mr. Jack filled the office of chairman of the Arbroath Chamber of Commerce; and since our last week's issue appeared we learn that he has been co-opted a member of the Council of the Proprietary Articles Trade Association (retail section) in succession to the late Mr. J. G. Atkinson. Mr. Jack sends us the following statement:—

I do not believe in election speeches, nor in assertions made for the purpose of having catch votes. These may be of value where one has an axe to grind, or, as we say in Scotland, a "bee in his bonnet." So far, I have been content to allow my fellow-pharmacists to judge of my qualification on the various bodies I am connected with from the work performed; this, in my opinion, is the right test. In offering my services to a wider *clientèle*, my recent co-optation by the London Council is my appeal for votes to return me, so that my long record of work may be continued in the interests of all.

One cannot take up activities right away, but the businesslike methods of the Council lead me to believe that preconceived opinions are often fallacious. Should the electors return me at this time, I shall do my best to assist in the deliberations of the Council, and prove that worth and merit count more than promises which can never be amplified.

The only vexed question—and a troublesome one it is—that affects pharmacists at the present moment is the Draft Order in Council concerning new regulations under the Dangerous Drugs Act. It is not my intention to agree to further annoyance at the hands of the Home Office, and my efforts will be to make the best of what is now recognised as a menace to the conducting of retail pharmacy.



Mr. J. JACK

Mr. F. Pilkington Sargeant

was educated and apprenticed at Chorley. He passed the Major examination in 1896 (within three months of qualifying), and two years later founded the Leeds College of Pharmacy. Mr. Sargeant has been a member of the Pharmaceutical Society's Council since 1912, and in 1920 was elected Vice-President. In Yorkshire he has taken an active part in pharmaceutical affairs, having been President of the Leeds Chemists' Association and of the West Riding County Pharmacists' Association. Mr. Sargeant replies as follows to our request for a statement of his views:—

You have been good enough to report my remarks from time to time during the last three years, and my policy has been the defined policy of the Council. It would be a waste of your valuable space were I to reiterate, but I would add that I have always attempted to achieve that which would improve and consolidate the position of the British pharmacist.



Mr. F. P. SARGEANT

B.P. Notes

By "Abel Scholar"

Factitious Balsam Copaiæ

Being desirous of preparing a factitious "oleo resin" of the same strength as bals. copaiba (as to resin and volatile oil), it was found that the common rosin used would not dissolve easily in the oil of turpentine used. The reason is probably that in Nature each mutually dissolves the other, and, as in Canada balsam, the product remains clear if free from water and other impurities. It is also possible that the resin was not pure. The turpentine also may have had some other hydrocarbons present of some other series, such as paraffin or benzene

Liquor Ferri Perchlor.

This preparation is made from a stronger solution of ferric chloride, which is also official, by the addition of distilled water in the proportion of three volumes of the latter to make four volumes of the former. Concentrated solutions recently used do not give a clear solution when added to distilled water and, on filtration, a small but appreciable quantity of iron, probably ferric oxychloride, remains on the filter paper. This may be obviated by the addition of dilute hydrochloric acid to the distilled water. The following formula is suggested:—

Conc. sol. of ferric chloride	...	...	10 c.c.
Diluted hydrochloric acid	...	...	10 c.c.
Aq. dest.	...	...	20 c.c.

Ung. Potass. Iodidi

In preparing the unguentum potassii iodidi of the B.P. the iodide and carbonate are ordered to be dissolved in the water and then added to the lard. Presuming that the value of the potassium carbonate lies in the neutralisation of any acids of the fat and thus preventing liberation of iodine, it is better to proceed as follows: Weigh out the lard and put it in the mortar. Then dissolve the potassium carbonate in half the official quantity of water and incorporate the solution into the lard until homogeneity results, dissolve the potassium iodide in the remainder of the water and add the solution to the alkalised fat. By this means retardation of the liberation of iodine is effected, and the difference is very marked when compared with the product made as officially recommended.

Associations' Winter Session

Brighton.—The Brighton and Hove Association of Pharmacy and the Brighton Division of the British Medical Association held a joint meeting on April 8. The intention is to hold such gatherings at least once a year, the organisations concerned being alternately responsible for the arrangements. Mr. Frank Browne, secretary of the Codex Revision Subcommittee, was the lecturer on this occasion, his subject being *The B.P. Codex*. The President (Mr. J. Plowright) occupied the chair. In the discussion which followed, Mr. Plowright said he had found that the compound syrup of glycerophosphates is a satisfactory preparation in winter, but gives a pectinous deposit in summer. The compound glycerin of thymoi is an excellent preparation and has a large sale, but he thought that there is still room for improvement. Dr. Parry, secretary of the Brighton Branch of the B.M.A., said that it had been remarked to him that medicines nowadays are very much nicer than they used to be. He thought that this is due to many of the remedies prescribed being B.P.C., which, he thought, are specially made so as to be as little nauseous as possible. He thanked the Society for presenting a copy of the Codex to the local branch, and it had already been largely consulted. The characteristic to him of the Codex is the enormous choice that it gives the physician in the number of preparations for administering drugs. It seemed to him that some extra formulas for mouth washes might be added to the Codex with advantage. A considerable number of drugs are probably but little used in England. This added to the size of the book. Would it be an advantage to remove these? He considered that there is no better book on *materia medica*, therapeutics and pharmacology than the Codex. He would be glad for pharmacists to express the opinion as to whether they would really like medical men to prescribe the B.P.C. remedies. In conclusion, he desired to congratulate the Association of Pharmacy in being able to arrange with him for this joint meeting. His own Association is carrying out a plan of having joint meetings with pharmacists, dentists, and the legal profession. Mr. Balchin said that he would like to have the Formulary separate, as it would be much better for the physician to handle, and probably it might be easier for the Codex Committee to keep up to date. Mr. Tuppen said that he was certainly expressing the views, he thought, of all pharmacists, that they desired to have B.P.C. preparations prescribed for the public. Dr. Broadbent said that he would be glad to be informed concerning the different varieties of sodium salicylate. He understood that sometimes the compound varied so that but little effect was produced. Mr. E. Jones said that he was pleased with the Codex, and considered it a monument of well-directed industry. He was in favour of a separate Formulary.

Cardiff.—The annual meeting of the Cardiff Pharmacists' Association was held on April 15. Mr. R. Davies (President) occupied the chair. In presenting the annual report and balance-sheet the secretary said the financial position was considered satisfactory, a credit balance of £36 being shown by the audit. The election of officers resulted as follows: *President*, Mr. S. W. Hague; *Vice-President*, Mr. S. H. Willis; *Secretary*, Mr. Newton, 14 Broadway, Cardiff; *Assistant Secretary*, Mr. Cyril G. Thomas; *Treasurer*, Mr. R. Davies; *Committee*, Messrs. A. Hagon, L. Joseph, J. A. Jones, J. D. Jenkins, A. J. Harris, S. B. Eason, and Owen Jenkins. It was unanimously decided that a sum of money sufficient to complete the effort shall be given to the "Albert Hagon Testimonial Fund."

Ealing.—The winter session of the Ealing Pharmacists' Association and Branch of the Pharmaceutical Society was brought to a close on April 8, when a joint meeting of a social nature was held in the Prince's Hall, Ealing Town Hall. One hundred members and friends were present. The members of the branch elected Mr. H. A. Irwin and Mr. R. F. Edkins to be the delegates to the British Pharmaceutical Conference to be held at Bath. The President drew the attention of members to the candidature of Mr. F. A. Lawman for the forthcoming

Council election. Mr. Edkins proposed that a resolution be passed assuring Mr. Lawman of the whole-hearted support of the members of the Ealing district. In seconding the resolution Mr. W. T. Stoyle congratulated Mr. Lawman on his suggestion for the formation of a Publicity and Service Committee that would act not only with the object of giving public expression to the pharmacists' point of view, but also as a link between the Society and its branches. The resolution was carried unanimously. Mr. H. F. Hutchison, B.A. (Oxon), then gave a lecture on *The Cathedrals of England*. With the help of a collection of lantern slides the lecturer, after demonstrating the simple principles of architecture, proceeded to show how they were applied by the master builders of the Middle Ages. A collection for the Benevolent Fund realised £5.

Eastbourne.—The Eastbourne Pharmacists' Association met on April 8 to discuss collective buying, after which a lengthy list was compiled. It was agreed that members should make their requirements known to those concerned just before the close of every month. The Pharmaceutical Council election was considered, but no decision was taken.

Edinburgh.—The Edinburgh Chemists', Assistants' and Apprentices' Association met in the Pharmaceutical Society's House, 36 York Place, on April 9, Miss M. Grant Boag (President) in the chair. Miss Gertrude Goudie gave a paper on *Spring Flowers and Fairy Rings*. In speaking of the early plants of spring Miss Goudie said danger seems to be courted, wind and storms defied, and frost and snow challenged to do their worst. Why is this so? Many of these plants, growing in the shady undergrowth of the wood, flower early before the light is shut off by the dense foliage of the trees above them. But some trees also bear blossoms before the leaves come. Such are wind-pollinated, and include the birch, the oak, and the elm. The flowers appear early, so that the leaves may not interfere with and obstruct the transference of the pollen. These early-flowering plants also furnish provision for the insects which are lured forth by the spring sun. The snowdrop was taken as an example of adaptability to the conditions of life and growth in which they occur. Such a white flower is rare among plants in this country; but it is of value to the plant, in that it tends to focus the rays of light on the pollen, and thus secures for the delicate grains the maximum of service from sun and air. On the petals are seen green pencilings, usually called honey-guides. Such streaks and markings, frequently of rich and striking colour, are found on many plants visited by insects. The scientific name of the snowdrop is *Galanthus nivalis*. *Galanthus* is from two Greek words meaning "milk-flower," while *nivalis* reminds us of the snows of the winter-side. If the bee fails to visit the flower, or if the pollen be squandered by wind and rain, a process of vegetative reproduction takes place. Miss Goudie then described the interesting fairy rings to be found by those who seek with pocket lens or microscope for the beautiful leaf-fungi sometimes called fairy cheese cakes, on the leaves of celandine, wood anemone, nettle, violet, and many other plants. Not only was such a study full of fascination, but it had also a practical value and an important bearing on the economics of life. Some of those lovely and insidious growths attack the most useful plants, and some years they cost florists and farmers thousands of pounds. After discussion, a vote of thanks was awarded to Miss Goudie on the motion of the President. Satisfactory reports and financial statements for the session were submitted by the hon. secretary, Mr. Eric Knott, and the treasurer, Mr. Hamilton B. Young, respectively. The following office bearers were elected for session 1924-25:—*President*, John H. Tainsh; *Vice-President*, Eric Knott, Ph.C.; *Secretary*, J. W. Laing, 85 Polwarth Gardens; *Treasurer*, Mrs. Margaret M. Smith; *Assistant Secretary*, Mr. Aitken; *Committee*, Messrs. Stout, Tait, Teesdale, and Young, and Misses Findlater, Goudie, Ingram, and Purdie. Prize Committee, President, Vice-President, and secretary, and Messrs. Blackie, Tait, and Young. Mr. Rutherford Hill moved the vote of thanks to the retiring office bearers.

Manchester.—The annual meeting of the Manchester Pharmaceutical Association was held on April 9. The President (Mr. David Dickson) in the Chair. The Secretary (Mr. T. Miller) reported on the work of the past year, and the Treasurer (Mr. A. J. Pidd) announced a balance in hand of £57 9s. 1d. The election of council was then proceeded with. Two new members were elected (Mr. E. S. Bury, St. Ann's Street, Manchester, and Mr. E. Stabler, of Didsbury) in the place of Mr. J. Beal and Mr. G. L. Westmacott. Mr. J. A. Collins, who last year was co-opted on to the Council of the M.P.A. (in place of Mr. Haines, who resigned), was elected for the Rochdale Road district. The librarian (Mr. A. L. Blain) and the auditor (Mr. A. C. Vallance) were thanked for their services, and were unanimously re-elected. The President received a vote of thanks for the manner in which he had carried on the work of the Association. Mrs. Dickson's name was coupled with that of the President. Votes of thanks were also passed to the Vice-Presidents (Mr. E. H. Simmons and Mr. R. G. Edwards), the treasurer and the two secretaries. Mr. Bygott proposed and Mr. Wild seconded, that the annual subscription be reduced from 10s. 6d. to 7s. 6d. After a lengthy discussion, the motion was defeated. The membership of the Association now stands at 186, one new member being elected at the annual meeting. The following candidates in the forthcoming election on the Pharmaceutical Society Council were put forward for the support of members: Miss Buchanan, Messrs. Guthrie, Hardy, Jack, Keall, and Neathercoat.

Preston.—The Preston Pharmacists' Association held a meeting on April 8 to discuss the terms offered by the Ministry of Health. It was decided to accept the fee of 5d. On the question of increased fees for vaccines, serums, insulin, etc., it was decided that the Retail Pharmaceutical Union, be asked to urge that the increase of 3d. start at a lower point, 2s. 6d. being suggested, even if the value rose by 5s. amounts after that. It was felt that the prescribing of large bottles of 16 oz. or over not only unfairly affects the chemist's remuneration, but was unfair to the patient, who got less frequent attention. It was decided to ask the Ministry to hold an inquiry in all cases where there was more than an average amount of such prescribing. It was decided to accept quarterly revision of the tariff, also the three years agreement.

Public Pharmacists.—On April 9, the Guild of Public Pharmacists held a meeting at Bloomsbury Square, London, W.C., at which a lantern lecture was given by the secretary (Mr. Arthur H. Jenkin) entitled, *In the Mountains of Switzerland*. The chair was taken by Mr. E. A. Andrews, F.C.S.; there was a good attendance of members and friends. The itinerary followed by the lecturer commenced at Chamounix, extending via Montreux and Interlaken to Lucerne. Visits to the Kandersteg Valley, the Jung Frau, Grindelwald, the Hasli Valley, and St. Gothards were described, and in more detail, the climbing of four passes, viz., the Gemmi, Grimsel, Furka and Brunig. Views of Lakes Lucerne, Geneva, Thun and Brienz, and some of their surrounding scenery, were provided by slides placed at the lecturer's disposal by the Swiss Federal Railways and various friends. In summing up his impressions, the lecturer described Switzerland as the geological core around which Europe had been built, its natural features including snow-covered mountains, glaciers, lakes, waterfalls, and tremendous gorges, all on a scale to impress the most casual beholder. The characteristics of the people were also described in detail, and a tribute paid to the application of electricity to haulage purposes. A vote of thanks, proposed by Mr. Gibson, was seconded by Mr. A. R. Keith.

Sheffield.—The concluding meeting of the session of the Sheffield Pharmaceutical and Chemical Society was held at the Y.M.C.A. on April 16, Mr. H. Bown (Vice-President) in the Chair. The President (Mr. H. B. Hammond) delivered a lecture on *The Living Plant*, at the special request of the students. The lecture was illustrated by upwards of 70 lantern slides, covering the whole of the plant kingdom. The session has been note-

worthy, witnessing as it has the introduction of a series of competitions for the students. The prizes each month were provided by the members. The final competition took the form of a written examination paper. About 30 students competed. A special prize for the best aggregate was won by Mr. S. Meakin, the runner up of this month's test was Mr. J. C. Hughes, who has only one year's experience. The winner of the second prize was Miss Enid Cooper. Mr. J. Noble (London) gave a special prize for the student who had consistently contested during the session but had not been successful; this was secured by Mr. J. C. Cook. It has been thought that for sometime students should have more attention given them in the programmes of local societies.

Watford.—At the postponed annual meeting of the Watford and St. Albans branch, held on April 10 at the Rose and Crown Hotel, Watford, the following officers were elected:—Chairman, Mr. R. Bennion; Secretary and Treasurer, Mr. A. R. Lewis; Auditor, Mr. J. Hutcheon; Committee, Miss M. B. Steabben, Mr. A. H. Paton, Mr. E. C. Last, Mr. F. J. Smith, Mr. H. E. Wood, Mr. J. G. Fletcher, Mr. P. H. Warren, Mr. John Taylor, Hemel Hempstead, was appointed delegate to the B.P. conference.

Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (1s. each including postage) of British patents can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Acetate of Alumina.—A process for making by electrolysis aluminium acetate solution by passing an electric current through aluminium electrodes in an electrolyte of acetic acid. (H. Cruse. 213,088.)

Massage Brush.—A tooth or massage brush consisting of a strip of soft rubber serrated along a portion of its width, and wound under tension on a former, the strip being removable. (R. M. Withycombe. 193,391.)

Cleaning Fluid for Glass.—A fluid for cleaning glass, porcelain, etc., consisting of a mixture of whitening, 1 lb.; water, 1 pint; benzin, six dessertspoonfuls; and petrol, three dessertspoonfuls. (T. E. Stanton. 212,439.)

Preserving Farinaceous Substances.—The flour or other substance is dehydrated and confined in hermetically sealed packages, the entire oxidising atmosphere being withdrawn and replaced by an inert gas, such as nitrogen or carbon dioxide. (Marcel Schoen. 203,661.)

Preservation of Eggs.—A method of preserving egg and other products by covering their surfaces with a thin layer of gum (for example, gum tragacanth) in the gel state, such gum being rendered hygroscopic and antiseptic by the addition of harmless inorganic agents (for example, sulphuric acid). (A. G. M. Stabback. 212,979.)

Barbituric Acid Derivatives.—A process for the preparation of salts of C—C unsymmetrically di-substituted barbituric acids, based on the interaction between piperazin or an organic or mineral base (except sodium), and isobutylethyl, isoamylethyl, butylpropyl, isobutylpropyl, or isoamylpropyl barbituric acid. (E. Layraud. 202,660.)

Separating Oxidised from Non-oxidised Fatty Acids.—The process comprises dissolving mixtures thereof in ethyl or methyl alcohol and extracting the alcoholic solution by means of organic solvents, such as benzine or aromatic hydrocarbons in which non-oxidised fatty acids are soluble and in which the oxidised acids are insoluble. (G. Petroff. 212,990.)

Manufacture of Charcoal.—A process for the manufacture of charcoal, producing at the same time alkali sulphide, by impregnating wood or other cellulosic material with alkali bisulphite or with a mixture of alkali sulphite and ammonium sulphate, charring at a temperature above 500° C., and washing the charcoal obtained. (A. G. Bloxam. 213,195.)

Pharmaceutical Botany

LIV. Belladonna

THE deadly nightshade or belladonna plant (*Atropa Belladonna*, Linné) is possibly the most important of all the plants in this series, as it represents an extreme type of medicinal plant. An ancient description states that it is "fetid when bruised," and has a "dark and lurid aspect indicative of its deadly quality." Reference to our colour print of belladonna included in our issue for March 1 (No. 2 of the series of nature pictures of medicinal plants) will show that the dull green leaves and dull purplish-brown corolla make belladonna far less attractive to the eye than most plants with such large leaves and flowers.

Belladonna is native to Central and Southern Europe, and occurs wild in the South of England, especially on chalky soils. It is cultivated for medicinal purposes, details of planting and collection being given on p. 367 of our issue of March 1. Belladonna



FIG. 175.—*ATROPA BELLADONNA*.

has a strong fleshy taproot a foot or more long from which diverge stout branches. This perenniates from year to year, sending up erect branching stems 4 to 5 feet high, which die down after flowering and fruiting. The aerial stems bear an abundance of ovate green leaves arranged in unequal pairs at their flowering "tops." This name is given to the young leaves and branches collected when the plant is in full flower and dried to form the fol. belladonnae of the present B.P. Actually the drug of commerce is imported from Germany and Austria, the British-grown herb being made into juice or green extract. The above peculiar arrangement of leaves, due to adnation (see below), is not uncommon in the *Solanaceæ*, but in conjunction with the entire ovate leaf of belladonna, having an acute apex and prominent pinnate venation, serves to distinguish belladonna readily from other plants. Fig. 176 shows diagrammatically how twining of leaves arises owing to the flowering leaves or bracts being displaced. The main axis terminates in flower (1) which has its own bracteole (1 a) and a lateral shoot ending in flower (2). This

flower (2) springs from the axil of bract (1 β), which by adnation to the stalk of flower is carried upward until it is close to the bracteole (2 a). By repetition of this process two leaves appear below each flower a larger one (1 a, 2 a, etc.), the bracteole, and a smaller one (0 β, 1 β, 2 β, etc.), which is the bract subtending the flowering shoot. The arrows point towards the true origin of the bracts and correspond to a ridge on the stem indicating the adnation. Belladonna leaves are usually about 3 to 6 inches in length. They bear soft downy hairs when young, but are practically free from these (or glabrous) when full size. They also lose the disagreeable odour of the fresh herb on drying.

The dried leaves are thin and papery with prominent nerves, and under a lens exhibit whitish points on their pale under-surfaces corresponding to cells filled with tiny sand-like crystals of calcium oxalate. The epidermal cells have a wavy cuticle which is helpful in identifying the powdered drug (along with the typical Solanaceous arrangement of cells surrounding a stoma seen in Fig. 173, Article lii, p. 563).

The flowers are borne singly on short drooping stalks. They have a broadly bell-shaped gamosepalous calyx with five deep segments. The corolla is about twice as long, being nearly an inch long. The corolla tube is whitish or yellowish at the lower end and purplish-brown above, where it ends in five short teeth. The stamens are five in number, with filaments inserted on the corolla and so short that the anthers are well sheltered below the mouth of the corolla tube. The sticky stigma which ripens before the stamens is, however, well exerted. The process of pollination is like that of henbane (Article li, p. 524). The stigma begins to turn brown and wither within an hour of pollination, and will fall off completely some hours later. This means that the pollen tubes must have reached the ovules within that space of time, which is remarkably short compared with the weeks that elapse in many flowering plants, while with some pines a whole year passes between pollination and fertilisation.

The two-celled superior ovary is succeeded by a sweet-tasting shiny black berry. These have been eaten by children in mistake for cherries, with fatal results.

The dried root is used for making ext. bellad. liq., which enters into the preparation of liniment, ointment, plaster, and suppository of belladonna. This is collected on the Continent in autumn from plants about four years old, and dried. The commercial drug consists usually of pieces 6 to 10 inches long and about $\frac{1}{2}$ inch thick, grey-brown and wrinkled externally, and breaking with a short fracture to show a white and starchy interior. This often contains pieces of hollow stems and old roots, attaining an inch or more in diameter, which are not official, though the drug is bought on alkaloidal assay. The active constituents of belladonna are hyoscyamine and atropine, the alkaloidal content of both leaves and root being generally about 0.4 per cent. (but may vary from 0.1 to 1.0 per cent. according to time of collection and care in cultivation). Atropine probably does not exist in the living plant, but is formed during drying and extraction. (For this and other points affecting the activity of belladonna see our issue of April 12, pp. 530-531.) Finally, though the whole belladonna plant is poisonous, it is especially liable to attacks by a small beetle (*Epitrix atropae*), which eats numerous holes in their leaves and thus obviously is not affected by the alkaloid. This is an extreme example of the varying effects of plant principles which makes methods of physiological assay so uncertain, even when animals much nearer human beings are used.

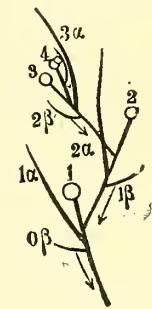


FIG. 176.—DIAGRAM OF GEMINATE OR TWINED LEAVES OF *BELLADONNA*.

1, 2, 3, the flowers; the α sign marks a bracteole and β a bract. The new flowers arise in the axils of the bracts β, which grow up along with the flower stalk, the arrow indicating true origin.

Westminster Wisdom

By the "C. & D." Parliamentary Representative.

SPECTACLE LENSES

Mr. Royle asked the Chancellor of the Exchequer on April 15 whether he is aware that the levying of a duty under the Safeguarding of Industries Act on ordinary low-grade lenses used for spectacles has had the effect of substantially increasing the price of spectacles; and whether he is prepared to consider the advisability of appointing a Committee to consider whether these articles should be exempt from duties?

Mr. Webb, who replied, said that he was not aware that the duty has had the effect stated, since its amount is very small in relation to the total cost of the spectacles. The answer to the second part of the question is in the negative.

PHOTOGRAPHIC CAMERAS

Mr. Hobhouse asked the President of the Board of Trade on April 15 the number of photographic cameras imported into this country since the imposition of the duty under the Safeguarding of Industries Act; and whether he can also state if the imposition of this duty has led to any new factories being established for the production of these goods?

Mr. Webb replied that the number of photographic cameras registered as imported into the United Kingdom during the period October 1, 1921, to March 31, 1924, was 793,772. He was not aware that the imposition of duty under the Safeguarding of Industries Act has led to the establishment of new factories for the production of cameras; but, owing to war-time requirements, photographic plant and equipment in this country had already been considerably extended.

OPIUM TRAFFIC

Lieut.-Colonel J. Ward asked the Secretary of State for the Colonies on April 16 whether his attention has been drawn to what is known as the Straits opium monopoly recently created by Dr. Sun Yat Sen's Government in Canton; whether he is aware that a large number of opium licensing bureaux have been established by the Canton Government, and that during the month of April 152 new opium dens have been established for which licences have been granted for the smoking of opium; and, seeing that this proceeding is not in accordance with the recent convention relating to opium agreed upon by the nations who are parties to the League of Nations convention, whether His Majesty's Government are taking any action in the matter?

Mr. Ponsonby said that the answer to the first two parts of the question is in the negative. The third part, therefore, does not arise.

Mr. Ormsby-Gore asked the Prime Minister on April 16 whether the projected League of Nations' Opium Conference has been convened for the purpose of giving effect to the principles submitted by the United States representatives on the opium advisory committee last May; whether he is aware that those principles included the restriction of the use of opium and cocaine products to medical and scientific purposes, and the restriction of the production of raw opium to the quantity needed for such purposes alone; and whether the representative of His Majesty's Government on the preparatory committee for the conferences will be instructed to give support to these proposals?

Mr. Davies, who replied, said that the purpose for which the conference has been summoned is to consider the possibility of concluding an agreement or agreements for the limitation of the amounts of morphine, heroin and cocaine to be manufactured, and the limitation of the amounts of raw opium and the coca leaf produced for export to the amounts required for such manufacture and other medicinal and scientific purposes, subject to an exception for those countries where opium smoking is temporarily continued under Part II of the convention. The proposal that a conference should be held with this object was put forward at the meeting of the advisory committee last May on behalf of the British Government, and the attempt to arrive at such agreements will receive the utmost support which the Government can give.

Personalities

MR. C. STONELAKE, chemist and druggist, St. Peter Port, has been elected to the council of the local Rotary Club.

MR. C. J. TAYLOR, Ph.C., Cheriton, Folkestone, has been elected Vice-Chairman of the Urban District Council.

MR. R. H. BARKER, chemist and druggist, Windermere, has been elected chairman of the Windermere Urban District Council.

COUNCILLOR THOMAS EDMONDSON, chemist and druggist, Penrith, has been re-elected chairman of the Urban District Council.

MR. F. A. BLOOR, chemist and druggist, Longton, has been elected a member of the committee of the local traders' association.

MR. A. MALINS SMITH, lecturer in biology and pharmacy, Bradford Municipal Technical College, has been elected President of the Bradford Natural History and Microscopical Society.

MR. I. HEWITT, chemist and druggist, proprietor of Russell & Co., chemists, Windsor, has been elected President of the Windsor, Eton and District Royal Warrant Holders' Association.

MR. W. J. U. WOOLCOCK, C.B.E., Ph.C., general manager of the Association of British Chemical Manufacturers, has been nominated for election as President of the Society of Chemical Industry for the ensuing year.

MRS. FLORENCE KNOTT, J.P., wife of Councillor Percy Knott, chemist and druggist, Bolton, has been returned unopposed for the North ward at the recent election of guardians. Mrs. Knott has been appointed vice-chairman of the Board and placed on the assessment, hospital and house committees.

MR. H. B. BRACKENBURY, M.R.C.S., L.R.C.P., Stroud Green, London, N., has been awarded the gold medal of the British Medical Association. The council explains that for the past ten years Dr. Brackenbury has taken an increasingly prominent part in the work of the Association, and that his share in the preparation and presentation of the profession's case before the recent official Court of Inquiry has crowned his achievements.

In recognition of the completion of fifty years' service by Mr. C. W. Mahle, warehouse manager, the staff of Evans, Gadd & Co., Ltd., wholesale druggists, Bristol, were entertained to dinner by the directors on April 16. Mr. H. E. Boorne occupied the chair and made a presentation on behalf of the directors. Mr. W. J. Wippell (Exeter) associated himself with the chairman's good wishes, and Mr. Mahle briefly replied. "Success to the Company" was given by Mr. T. Willis (Bristol representative), to which Mr. F. Southerden (Exeter) responded. Mr. Nelson proposed "The Ladies and Visitors," and Mr. A. H. Boorne replied. An enjoyable entertainment was rendered by Miss Boorne, Miss Hone, Miss M. Mahle, Miss N. Boorne, Mr. F. Mahle and Mr. H. E. Boorne.

Much regret was felt by all who attended last year's meeting of the British Pharmaceutical Conference at the announcement that Mr. R. R. Bennett, B.Sc., F.I.C., Ph.C., was retiring from the office of secretary after eleven years' service. The older members of the Conference will remember that Mr. Bennett was appointed junior secretary on the retirement of Mr. E. Saville Peck in 1912, and became senior secretary in 1919. Mr. Bennett, who, as most people know, is a director of The British Drug Houses, Ltd., was called to the Bar in 1911, preceded Mr. C. H. Hampshire, B.Sc., as pharmacist to University College Hospital, and is the author of the well-known "Medical and Pharmaceutical Latin." It is proposed to make him a presentation at the Conference at Bath in July; donations will be received by the treasurer, Mr. D. Lloyd Howard, at 17 Bloomsbury Square, London, W.C.1, and all who realise how much of the success of recent conferences has been due to Mr. Bennett's diplomacy will, as a matter of course, be anxious to be associated with this tribute.

Births

Notices for insertion in this column must be properly authenticated.

BLATT.—At St. James's Nursing Home, Swansea, on April 7, the wife of H. Blatt, chemist and druggist, 3 Briton Ferry Road, Neath, of a son.

Marriages

ADDERLEY—EVANS.—At St. Mary's Church, Hayes, Middlesex, on April 23, by the Rev. E. F. Bailey, Bert Joseph Adderley, M.P.S., to Florence Ada Maude (Joy), elder daughter of Mr. E. Evans, 303 West Street, Crewe.

DAVIES—DOHERTY.—At St. James's Church, Spanish Place, London, W., on April 10, Mark Davies, M.P.S., Glasgow, to Mary Catherine, youngest daughter of Mr. Michael Francis Doherty, Southport.

LANG—SMITH.—At Windsor House, Edinburgh, on April 17, by the Rev. W. Forbes, B.D., Donald Ashcroft West Lang, chemist and druggist, son of Mr. J. West Lang, Ph.C., Stockport, to Adeline Smith, chemist and druggist, Haddington.

MCDONALD—CARTER.—At Cheddar Wesleyan Chapel, on April 21, by the Rev. John Hannah, Thomas McDonald (Vinolia Ltd.), Liverpool, to Edna Florence Carter, Cheddar.

ZEAL—WEIR.—At All Soul's Church, Langham Place, London, W., on April 23, Herbert Henry Zeal, eldest son of Mr. G. H. Zeal (G. H. Zeal Ltd., thermometer manufacturers), 57 North Gate, Regents Park, N.W.8, to Eileen Gwendoline, daughter of Mr. S. L. Weir, Tinahely, co. Wicklow.

Deaths

ELLIDGE.—At Chichester, on April 1, Mr. John Wesley Ellidge, chemist and druggist, aged eighty-four.

GUYER.—At a nursing home in Edinburgh, on April 21, Mr. Richard Glode Guyer, Ph.C. Mr. Guyer was

trained by his father, a Torquay pharmacist, with whom Mr. R. Feaver Clarke also had experience. He passed the Major examination in 1894, and was in the laboratory of Hodgkinson, Clarke & Ward until 1897, when he became assistant to Dr. Inglis Clark in the laboratories of Duncan, Flockhart & Co., manufacturing chemists, Edinburgh. Eventually he was appointed manager of the galenical laboratory and of the organo-therapeutic department. In 1913, as the result of a suggestion made by the late Sir Edward Evans in his presidential address to the British Pharmaceutical Conference in the previous year, Messrs. Duncan, Flockhart started a herb farm under Mr. Guyer's expert direction. He became well known to British pharmacists through numerous contributions to current publications. In 1911 he presented, in collaboration with Mr. W. T. Ewing, a valuable paper on ointments at one of the evening meetings of the Pharmaceutical Society in London; and the "Year-Book of Pharmacy" contains more than one abstract of his scientific papers. Of recent years he had become known in Scotland as an able lecturer on botanical subjects, on which he expended much thought and study. Botany and the application of the science to the cultivation of medicinal plants were Mr. Guyer's chief delight. At an evening meeting of the Pharmaceutical Society in 1920 he showed photographs

of medicinal plants of his own growing, and in the following year, at an Edinburgh meeting of the Society, he gave a paper on the cultivation of such plants in Scotland. Other subjects dealt with by Mr. Guyer from time to time included beeswax, thyroid gland, tincture of digitalis, and eusol. So recently as February he was lecturing before the Edinburgh Chemists', Assistants' and Apprentices' Association on "Wild Flowers and their Folk-Lore" (C. & D., March 22, p. 414), and a few weeks previously he lectured on the Edinburgh Botanical Garden before the Edinburgh College of Art. When we began to issue the series of nature pictures of medicinal plants, we received a characteristic letter of appreciation from him. The aconite illustration raised the question of purity of species, and Mr. Guyer sent us some beautiful enlargements of photographs of the flower-heads of aconite, which we hope to reproduce in the near future in THE CHEMIST AND DRUGGIST. Mr. E. M. Holmes had supplied Mr. Guyer with seed, and a point we are investigating is whether the plants are true *A. napellus*. In one of his letters, Mr. Guyer mentioned that he had been away from business for some time, but was hopeful of an early recovery. The recovery was, we regret to find, only temporary, and it comes as a great shock to us to learn that he has passed away so suddenly.

HIGHMORE.—At Harbybrowe, Worcester Park, Surrey, on April 16, Sir Nathaniel Highmore, G.B.E., K.C.B., late solicitor to H.M. Customs and Excise, aged seventy-nine. Sir Nathaniel Highmore was the first witness to be called by the Select Committee on Patent Medicines, which began its sittings in 1912. He was the author of handbooks on revenue law, and during the war acted as secretary to the War Trade Department.

LUTTON.—On April 15, suddenly, Mr. Ralph S. Lutton, chief sales manager of Sterns, Ltd., oil refiners, Finsbury Square, London, E.C.2, aged forty-five. Prior to joining Messrs. Sterns' staff six years ago, Mr. Lutton was with the Vacuum Oil Co., Ltd., and in both positions he became well known and esteemed. He leaves a widow and three children.

OUGH.—At Fernleigh, St. James' Road, Leicester, on April 17, Mr. Lewis Ough, Ph.C., F.C.S., eldest son of the late Mr. Lewis Ough, Liskeard, Cornwall, aged fifty-six. Mr. Ough, who passed the Major examination in 1888, was a director of Walter Rowe, Ltd., chemists, 97 London Road. He went to Leicester thirty-four years ago, and for the first twenty-four years was in the laboratories of John Richardson & Co. (Leicester), Ltd., manufacturing chemists. Mr. Ough did much valuable research work, and was in request in many parts of the country. He made a special study of the microscope, and was treasurer of the Leicester and Leicestershire Photographic Society for twenty-five years. He was also a prominent member of the Leicester Literary and Philosophical Society. In 1898 Mr. Ough commenced for THE CHEMIST AND DRUGGIST an interesting series of articles on resinoids, among those dealt with being hamamelin, leptandrin, and hydrastin. He was also an occasional contributor to the proceedings of the British Pharmaceutical Conference—e.g., in 1893 on effervescent caffeine preparations—and found time to write instructive monographs on such processes as chromate printing. The funeral took place at Liskeard, and a memorial service was held at St. Philip's Church, Leicester.

ROBERTS.—In a Dublin nursing home, on April 9, following pneumonia, Mr. Calvert Roberts, a director of May, Roberts & Co., Ltd., druggists' sundriesmen, 7-13 Clerkenwell Road, London, E.C.1, aged sixty-three. Mr. Roberts, who was a nephew of the founder of his company, had been in charge of the Dublin branch since its opening. His genial disposition rendered him very popular in Irish trade circles, while his fairness imparted confidence to the employees of the company. He will be greatly missed.



MR. R. G. GUYER, PH.C.



Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1924, p. 289.

(From "The Trade-marks Journal," April 16, 1924.)

- "L. BROS., LTD., LONDON, ENGLAND," on triangle device ("L" and triangle device disclaimed); for chemicals (1); scientific instruments, etc. (8); surgical instruments, etc. (11); mineral waters, etc. (44); goods (47); and perfumery, etc. (48). By Lines Bros., Ltd., 761 Old Kent Road, London, S.E.15. 441,793/796/799/805/807/803. (Associated.)
- "AURASOL"; for chemicals (2). By British Dyestuffs Corporation, Ltd., 70 Spring Gardens, Manchester. 443,872.
- "FLY-TOX" on diamond shape; for chemicals (2). By Wenatchee Rex Spray Co., Foot of Thurston Street, Wenatchee, Washington, U.S.A. 444,248.
- "TRIFLUIDOL LITTLE" ("Little" disclaimed); for sheep dip (2). By Morris, Little & Son, Ltd., 42 Hallgate, Doncaster. 445,185.
- "JOVEN'S"; for medicated wine (3). By E. Young & Co., Ltd., 11 Seel Street, Liverpool. B437,695.
- "RUS"; for a remedy for colds, etc. (3). By L. S. Lindley, 10 Chester Place, Hyde Park Square, London, W.2. 442,099.
- "BUTELLINÉ"; for a local anaesthetic (3). By Société Chimique des Usines du Rhône, 21 Rue Jean-Goujon, Paris. 443,397.
- "OPTIM"; for salines (3). By R. M. Connold, 14 Hilton Avenue, North Finchley, London, N.12. 443,558.
- Device of section of sparklet bulb for medicinal chemicals (3). "SPRE D'OR"; for all goods (11). By Sparklets, Ltd., Angel Road, Upper Edmonton, London, N.18. 444,678; 445,857.
- "HORTUT"; for all goods (3). By F. Horabin, 475 High Road, Wood Green, London, N.22, and A. E. H. Tutt, 89 Lorrimore Street, London, S.E.17. 445,489.
- "IDIONE," "DANIUM" and "PARATHAL"; for all goods (3). By John Bell, Hills & Lucas, Ltd., 14 Tower Bridge Road, London, S.E.1. 445,490/491/596.
- "REARGON"; for medicinal chemicals (3). By Chemische Fabrik "Norgine," 178 Schwenkestrasse, Aussig, Czechoslovakia. 445,669.
- "PAPYRUS" and "DEFIANCE"; for industrial milk powder (4). By J. Nathan & Co., Ltd., 16 St. Helen's Place, London, E.C.3. 438,902/904.
- "IMP" under device of same; for an electrical heel pad (11). By Electropeds, Ltd., 29 Ludgate Hill, London, E.C.4. 445,454.
- "BETA"; for surgical instruments, etc. (11). By T. L. Fowler, 209 Oxford Gardens, Stafford. 445,660.
- "CITRONIA BOISSELIER"; for beverages (42). By H. C. Boisselier, 2 Tramway Avenue, Stratford, London, E.15. 445,175.
- "DIUNO"; for perfumery, etc. (48). By Mary Scott-Rowland, Ltd., 40 Old Bond Street, London, W.1. 453,590.
- "CAPULAS"; for a hair preparation (48). "GLORIAS, LTD., PERFUMERS TO THE WORLD," with picture of chariot on top of the world; for perfumery, etc. (48). By Glorias, Ltd., 18 Conduit Street, London, W.1. 436,018/238.
- "OLIVOID"; for all goods (48). By G. Staley, The Grove, Nottingham Road, Tansley, Matlock. 436,873.
- "SOIREE"; for perfumery, etc. (48). By Boots Pure Drug Co., Ltd., 37 Station Street, Nottingham. 443,666.
- "EAU DE NEIGE (SNOW WATER), NON-GREASY," with device of clasped hands and floral wreath ("Snow Water" and "Eau de Neige" disclaimed); for toilet water (48). By E. B. Smith, 19 Hornsey Rise, Islington, London, N.19. 443,963.
- "MADONNA"; for talcum powder (48). By A. F. Robinson, 39 Victoria Street, London, S.W.1. 445,243.
- Device of ruler; for perfumery, etc. (48). By W. Gossage & Sons, Ltd., Widnes, Lancashire. 445,846. (Associated.)
- "KARAH"; for non-medicated herbal smoking mixture and cigarettes (50). By F. E. Goddard, Collyweston House, Back Lane, Collyweston, near Stamford. 444,813.
- "LIBROX"; for brushes, combs, etc. (50). By D. M. Rees, 62 South Audley Street, Grosvenor Road, London, W.1. 445,836.

The York Chamber of Trade has decided to ask all retailers who are members of the chamber to allot 5 per cent. of their takings on June 28 to the fund for reducing the debt on the York County Hospital.

Trade Notes

DIAMOND CORN CURE.—Cupal, Ltd., Blackburn, are offering a bonus with each gross of Diamond corn cure. Particulars are given in our advertising columns.

LABEL PRINTING.—Ellams & Co., 33 Hanover Street, Liverpool, announce reduced prices in chemists' labels. Price list and samples are obtainable on application.

SORBO SPONGE.—The chief selling points in connection with Sorbo sponge are set forth in the advertisement of Sorbo Rubber-Sponge Products, Ltd., Sorbo Works, Woking.

BRITISH EMPIRE EXHIBITION.—The sole contract for the supply of lime-juice cordial at the British Empire Exhibition, Wembley, has been accorded to Idris & Co., Ltd., London, N.W.

PHOTOGRAPHIC DEVELOPING AND PRINTING.—Chemists in the West of England should note that a photographic developing and printing service has been established by C. & H. Service, 3A Terrace Walk, Bath.

FLYCATCHERS.—Kay Brothers, Ltd., Stockport, announce lower prices for flycatchers. The "Viper" and "Fly-sac" are their two chief lines, and these will be in demand whenever a spell of hot weather arrives.

BRONNLEY'S SOAP BONUS.—H. Bronnley & Co., Ltd., Acton, are offering six different parcels of their soaps, varying in cost from £4 16s. to £16 13s., with free bonus goods in each parcel, in return for a window show.

ARISTO SHAVING BRUSH.—Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool, offer to C. & D. readers a sample case (22s., postage paid) of Aristo shaving brushes, such as is figured in the company's advertisement in this issue.

MILTON DISINFECTANT has been officially selected for use at the British Empire Exhibition. The Milton Proprietary, Ltd., 125 Bunhill Row, London, E.C.1, are also advertising it throughout the exhibition, which should lead to more business for chemists.

Grips FIRST-AID PASTILLES.—Thos. Christy & Co., 4-12 Old Swan Lane, London, E.C.4, the distributing agents for Grips First-aid Pastilles, ask chemists to write for particulars of the new series of containers which are being issued to commemorate the British Empire Exhibition.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

B/234. A.K. Lotion	S/164. Kasogene (for rheumatism)
L/164. Duroma perfumery	O/234. Lornella face powder
B/234. Ecreol	S/164. Palatino (for rheumatism)
A/224. Egyptian San Rema	Hair Wash
S/234. Ivyne corn cure	B/244. Paradolin
L/154. Kinlo's foot pads	B/244. Titan chalk

INFORMATION SUPPLIED

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.4.

Acme weed-killer. G/234	Mosman's Rheumatic Cure.
Cutter's vaccines. A/224	A/224
Field's Cattle Oils. M/224	Pyorrhosol. P/154
Imperial porous plasters. M/184	Smith's weed-killers. G/234
Iodaseptic. B/164	Stomatol. S/224
Proudfoot's Pills. M/224	Vermite. R/234

THE CROP OF JALAP ROOT in Vera Cruz is estimated at 18,000 kilos., but this does not include production from the San Juan Coscomatepec district. The states of Oaxaca and Hidalgo produce a large amount of jalap root, and the greater part is shipped through Vera Cruz to the United States and European ports. The market price in Jalapa at the present time is about 50 cents per lb., American currency.

Observations and Reflections

By Xrayser II.

It is Noticeable

that of the technical books reviewed at any length in your last week's issue six of the most important from a scientific point of view are German, only three English, and one American (this appears to be a textbook merely). The English books reviewed are for the most part concerned with trade or the manufacture of articles of commerce. One of these is, indeed, of a more scientific character than the rest, and is clearly a very valuable work; but the fact remains that, so far as the evidence goes, the Germans appear to be still the most active people in the realm of pure science. This may be purely accidental, but is it? You note as curious the fact that the method of teaching by question and answer, discarded by us, still survives in the United States. I am not sure that for beginners it is not the most effective of all methods. I suspect that very few books have been more successful as teachers than Mangnall's Questions (now forgotten); and of all the scientific works I have studied (not a great many, it is true) none has left so lasting an impression on my mind as a little work of the same kind, "Breakfast Table Science," by a Dr. Wright, of Chatteris, an impression partly perhaps owing to the fact that the author was a relative, but due mainly to its merits. I wonder whether it is still in existence.

The Admirable Letter

of Mr. C. Denby Day is peculiarly welcome to me as an endorsement, in more forcible language than my own, of what I have often said about proprietaries. Perhaps I feel even more than Mr. Day the degradation into which we have fallen, mainly by our own fault, in this respect because I remember a time in which we had not yet succumbed to the mammoth advertiser. Neither in London nor in the country was it customary, in my early days in the trade, for chemists in a fairly good position to stock a very great variety of patents, much less to cultivate a trade in them. They were, indeed, looked at a little askance, and regarded as belonging rather to the stationer's business than to ours. The case was a little different with regard to proprietary toilet and domestic articles generally, but here the determination to push our own preparations came in. The idea of deliberately displacing his own goods by a "window display" of anybody else's never, I can confidently say, would have been entertained by any of the men with whom I served as an assistant; and even when I began to travel in sundries I often found it difficult to persuade a customer to risk such displacement. But this was in the world before the flood; the waters have gone over our heads since then, and most of us simply drift with the stream. It is a humiliating position for a "professional" body to occupy, and it is not a necessary one. A return to the old conditions is impossible; but we might regain the power of choice.

"In Germany,"

said Mr. Jerome a good many years ago, "one has only to be born; the police do the rest." This old joke against our late enemies bids fair to become a sad reality of ourselves. The worst of such legislation as is contemplated in the Therapeutic Substances Bill is not that it needlessly hampers existing industries, but that it discourages research and invention at their source, checking initiative and that "free creative activity" which is as necessary to the progress of science as it is to the maintenance of art. Bureaucracy is fatal to progress, and means eventually nothing less than stagnation; we see its result, *in excelsis*, in the stereotyped civilisation of China. In saying that it is a moot point whether the meddling of officials does not kill that enthusiasm which is the basis of all research, you put the case too mildly; there is no doubt that it has always that tendency, and when the meddling is of the nature of this Bill it must inevitably have that

effect to a very considerable extent. Men who are forbidden to make or even to handle certain substances will take very little interest in them or in the development of the art they further; many who might have been pioneers in the art of healing will be restricted to the rôle of mere beasts of burden; the area from which the ranks of discoverers might have been recruited will be narrowed, and discovery itself tend to become the exclusive function of a Government department.

I read with regret

the recent report in your columns that the library of the Pharmaceutical Society is not in a very satisfactory condition, nor so much used as it ought to be. Time was when the library was the chief link that held me to the Society, and to it I owe the beginning of my interest in the highways and byways (chiefly the latter!) of pharmaceutical history. The out-of-dateness of many of the works in the library, of which somebody on the Council complained, was to me their chief attraction; but unfortunately a good many of them, though too old to be of any practical use, are not old enough to be of much antiquarian interest. There are, however, some noticeable exceptions. Nothing in the way of literature is, I suppose, quite so dead as old works of science (unless it be old sermons, but they, for the most part, never had much life in them). Yet, when from being merely old they have become ancient, they acquire a fresh interest and live once more, at least for those whose "natural piety" extends beyond the beginnings of their own conscious existence. One of the items in the Society's balance-sheet for last year amazed me. It was this: "Acting librarian's salary, £175." Why has not a permanent librarian been yet appointed, and at a salary a little more in accordance with the duties of such an honourable office? It is said that Mr. Gladstone once, when visiting the British Museum, told one of the assistants who complained to him that this department of the Civil Service was worse paid than any other, that men ought to be glad to work for nothing at such delightful tasks as theirs. Do our Councillors think so of librarians?

The Unaccountable Indifference

of the average chemist to his own interests is strikingly shown in the meagre attendance of panel chemists at the meeting in Manchester (*C. & D.*, April 19, p. 575), and the fact remarked upon by the Executive Committee of the Proprietary Articles Trade Association that members will not trouble themselves to consult the list of protected articles when in doubt whether any particular article is protected or not. Either instance is enough to make would-be benefactors of the craft despair. We shall see the same spirit operating in the pending Council election; but we are so used to it there that it hardly excites comment. The want of interest in the Manchester meeting was perhaps partly responsible for its somewhat contradictory proceedings.

Stramonium

was introduced into the London Pharmacopeia in 1808, but it was the herb only, not the seed, that was then used. In mania, epilepsy, melancholia and other spasmotic diseases, says Clarke, it was given in doses of one grain, gradually and cautiously increased to five grains, its exhibition being suspended if vertigo, drowsiness, difficulty of swallowing or other toxic symptoms appeared. A favourite form for its administration was the inspissated juice in doses of a quarter of a grain to three grains, and the bruised leaves were applied externally to discuss hard and indolent tumours. An ointment was also made of the powdered leaves. It does not appear to have been smoked. This, however, was not its first appearance in our *materia medica*. Alleyne says: "The whole plant is very narcotic. The seeds provoke to venery, but are not to be used without great caution." I do not remember to have seen the plant anywhere so beautifully illustrated as in your nature pictures.

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Editorial Articles

The Problem of Repetitive Work

THE avoidance or neutralisation of monotony in repetitive operations in factories is by no means a new problem, and many devices to this end have been adopted by alert supervisors. Investigations into this difficulty have lately been carried out by Dr. H. M. Vernon and Mr. S. Wyatt under the direction of the Industrial Fatigue Research Board of the Medical Research Council, and the results have been published in pamphlet form (Report No. 26: Stationery Office, 1s. 6d.). Subject to the drawback that it apparently ignores the existence of such devices as those to which we have just referred, this is a very able and thorough treatment of a subject of the first importance to all who desire to obtain increased output with the existing means at their disposal. The report is copiously illustrated with charts and tables, the work of compiling which may well have been more laborious than the operations under investigation. Many kinds of operation were studied in factories, and laboratory experiments in mental and muscular work were also carried out. The nature of the investigations may be illustrated by quotations. The first relates to carton-making:—

Of the girls who habitually stood whilst at work, one group were engaged in making cartons (for starch powder). It took them only 3 secs. to open a flat carton, fold over the ends and stick on a strip of paper, but every two minutes or so there was a break when fresh glue had to be spread on a board, and every 20 to 30 mins. material had to be carried or fetched. Another group of girls were engaged in compressing a powder into blocks by means of hydraulic presses, a process which took about 24 secs. The girls got 7.5 breaks per hour, averaging 1.0 min. each, during most of which they were walking about with material.

The relative frequency of standing and sitting was studied at a soap works, where teams of girls were packing cakes of soap into cartons:—

The machines stamped out bars of soap into cakes which were delivered on to a band moving slowly along the middle of a table. On either side of the table sat a number of girls, engaged in "making" the cartons (i.e., bending together the flaps of one end), wrapping the cakes of soap, inserting them, and closing the cartons. Six of these girls were provided with stools, and they could sit or stand at their work, as they liked. All the girls got a 10 mins. change of work every hour, during which they mostly sat down and made cartons, but during the 50 mins. they were at the tables they adopted very different postural habits. Observations were made on four teams for five days, and during this time the carton makers were observed to stand at their work for periods averaging 0, 0, 0, 2, 2, 2, 3 and 7 min. per hour, so they were fairly consistent. However, the girls engaged in wrapping the cakes of soap were very far from consistent.

The packing of compressed tablets appeared to lend itself to greater variety:—

The girl obtained the tablets required for the order from an inspector, and the labels and boxes from a store girl, but had herself to fetch the bottles and caps. Seated at a table, she performed the consecutive processes necessary for the completion of each part of the order. Thus, if the first order was one dozen bottles of aspirin tablets, she first

fetched the necessary bottles, cleaned them, and then filled each bottle with the required number of tablets, after which she padded, capped, labelled and packed the bottles. A similar procedure was followed in connection with the next order, and so on throughout the day. If the order was comparatively large, e.g., six dozen, it was usually completed in parts. Thus 20 to 30 bottles would be cleaned, filled, padded, etc., and then removed to one side, afterwards a similar number would be dealt with in the same way until the six dozen were finished. Usually from 6 to 12 different orders were completed in this way in the course of a day, and this involved from 100 to 250 changes in the kind of activity, giving an average duration for each process of 2 to 5 minutes.

In an appendix, a specimen of detailed observations is given in tabular form: this is of exceptional interest to those conversant with workroom details. A line taken at random shows that 42 seconds was occupied by the worker selected in stamping (presumably with the batch number or letter) the labels for a dozen bottles of ammoniated quinine tablets; the next line gives 44 seconds as the time taken in gumming the same labels. The authors have—wisely, we think—not encumbered their report with a multitude of conclusions; and their chief deductions may be indicated in a sentence or two. Variety, they suggest, can be introduced by change of process, change of posture, and facilities for conversation, the last-named of which may diminish the tendency to "day-dreaming" present in some processes. The laboratory experiments "show . . . that a considerable increase in the quantity and quality of output can be obtained by changing the form of activity every 50 minutes in a spell of $2\frac{1}{2}$ hours." From the same experiments it was concluded that "too many changes in the form of activity are undesirable, and have an adverse effect on production. The unproductive time on a typical day amounts approximately to 18 per cent., and in addition a further decrease in the rate of working occurs because of the unfavourable effect of the interruptions upon the swing of work." This estimate corresponds fairly closely with one recorded in another part of the report as the result of a test in factory conditions. The suggestion finally made is that "for each form of activity an optimum duration exists"; and this, like the rest, is the outcome of scrupulously methodical study.

Public Health (Scotland) Amendment Bill

A BILL to extend the powers of local authorities under the Public Health (Scotland) Act, 1897, has been read a first time in the House of Commons. The Bill is a short one, the operative clauses being as follows:—

1.—*Power of local authorities to provide medicines, etc., to persons suffering from diabetes and other diseases.*—(1) The powers of a local authority under the Public Health (Scotland) Act, 1897, shall include and be deemed, as from the first day of March, nineteen hundred and twenty-four, to have included power to make such arrangements as may be sanctioned by the Scottish Board of Health (in this Act referred to as "the Board") for providing medicines and treatment to persons who are suffering from diabetes or such other diseases as the Board may by order prescribe, and who, in the opinion of the local authority, require assistance in obtaining such medicines and treatment.

(2) Before any such order by the Board comes into force it shall be laid before each House of Parliament for a period of not less than twenty-one days during which the House is sitting, and if either House of Parliament before the expiration of those twenty-one days presents an Address to His Majesty against the order, or any part thereof, it shall not come into force, without prejudice to the making of a new order.

2.—*Combination of local authorities.*—The Board may, if they think fit, by order authorise two or more local authori-

ties to act together for the purpose of this Act, and may prescribe the mode of such joint action and of defraining the costs thereof.

The object of the Bill, as will be seen, is to enable local authorities to provide medicines and treatment to persons suffering from diabetes or such other diseases as the Board of Health by order may prescribe and who, in the opinion of the local authority, require assistance in obtaining such medicines and treatment. The provision regarding the laying the order on the table of the House of Commons is usual in such cases, and the power for combining small local authorities for joint action is not unreasonable. While the first object is to supply insulin, it is not certain whether it is intended to set up laboratories for the manufacture and to subsidise them. It is quite clear, however, that the same method of getting sanction for one thing and practically a blank cheque for filling in as desire arises is receiving further support from this Bill. It is questionable whether the time has not arrived to institute an inquiry into the present methods of supplying medicaments out of public funds. That there is abuse is well known to those who handle them both in the supply and application of the remedies, and these extensions of the principle of free or so-called cheap supply ought to be carefully considered by such bodies as the British Medical Association and Pharmaceutical Society. It is not clear that the method of supply by local authorities is the best for securing adequate and satisfactory treatment, as it generally leads to slackness in one or other of the parties. Moreover, we think that the Pharmaceutical Society in England and Wales, and through its officers in Scotland, should take direct action in impressing upon the Government departments in both countries the necessity for recognising the personal qualification of chemists as the distributors of medicines instead of multiplying supply depôts, as has so frequently been done in the past. The means for distribution are provided already, and while medical men are protected, the chemist is forgotten. In the interests of economy and efficiency in the public service there is everything to be gained by the recognition of the personal qualification of the chemist.

The Turpentine Market

WHATEVER hopes may be entertained by consumers of turpentine that the fair surplus stocks available on either side of the Atlantic, together with the approach of the new crop season, would bring about a gradual adjustment of prices in their favour in the near future, it is as well to recognise the fact that new crop operations in the United States have been delayed by at least one month in consequence of unseasonably cold weather. This rather unusual delay of the advent of the new crop cannot be altogether ignored as a market factor, for a short period, at any rate, although the trend of values was not much affected by a temporary revival of buying by dealers against short commitments in forward positions. Owing to the backwardness of the new campaign operations, it is considered doubtful whether new spirit will become available in the southern markets until towards the end of May, so that in the interim the demand from consuming centres for near delivery or shipment will have to be satisfied entirely from old crop spirit. There is, however, not the least cause for alarm, as moderately good stocks still exist in the United States, while a fair reserve is being held in this country, which should be sufficient to cope with current needs for about another six weeks or so. Were there any serious scarcity to be apprehended in

the near future, there is no doubt that, in spite of the virtual absence of new speculative enterprise, holders would have become more exacting in their views, and been able to enforce a notable premium, as happened in the early months of last year, when spot spirit commanded a substantial premium and touched as high as 116s. 6d., while the Savannah quotation early in April last year was forced up to 154 cents. That prices have held up so well with comparatively small fluctuations for several months past—in fact, since the recovery which took place in the latter part of the past year from the lowest point of 69s. in September—speaks well for the stability of turpentine, which in the past has earned the reputation of being more erratic than any other speculative counter. The Savannah quotation, which stood at 85½ cents at the close of last year, fluctuated up to fully 98½ cents early in February, reacting later to 93 cents and steady again in the neighbourhood of 94 cents. In this market spot delivery so far this year sold at its best at 79s. 9d., and contracts maturing within the spring period touched 80s. 9d. per cwt. Fluctuations within the last few weeks have been of no special importance, although the market under the holiday feeling eased late last week to 76s. for spot delivery, while the fact deserves notice that May-June contracts were quoted at the same figure. This would certainly suggest that there is not much to be expected in the way of easier conditions for another two months in respect of new American crop spirit. In fact, some dealers take the view that until more satisfactory news comes to hand as to the progress of the new campaign, the market is quite likely to show sustained resistance, as the old stocks are being steadily reduced and will thus make for a stronger statistical position in the coming month. Should an urgent demand on the other side become manifest at any time over that period the position is apt to become tightened. Current prices being generally regarded as fairly reasonable, there does not seem to be much to fear of any material decline for some time to come, but consumers nevertheless appear to adhere to a hand-to-mouth policy. The fact has also to be noted that the French new season's crop operations are likewise backward, and manufacturers' tanks in France are said to be very low, while users hold but little stock. It had been expected that a start would take place with the gathering of the new spirit about a fortnight ago, but apparently little or nothing is now expected before this month is over, although several contracts have already been arranged with distillers for the new gum. We give below the official figures from the Board of Trade Returns indicating imports for the first three months of this year with comparison for last year, together with the respective total values of same. These figures give some idea of the much higher prices that were paid by importers in the first quarter of last year, when prices for spot delivery fluctuated throughout at considerably upwards of 100s. per cwt.

U.K. Imports	1923	1924
	Tons	Tons
March	... 909	854
January-March	... 3,305	2,913
Total value	... £321,025	£201,106

The import value of £201,106 of this year's returns works out at about 69s. per cwt., compared with fully 97s. for the first three months of 1923, the wide difference between which approximately corresponds with fluctuations in our market. The fact may be pointed out that the current spot price is about 13s. per cwt. below the average price for the whole of last year.

The "Year-Book of Pharmacy"

THE "Year-Book of Pharmacy" for the year 1923 has just been issued (Pharmaceutical Press, 17 Bloomsbury Square, London, W.C., pp. xxxvii + 307). Taking an old volume at random, we find that it contains 594 pages; the increase in size in the present Year-Book is mainly due to the fact that a period of fifteen or sixteen months is covered, swelling the portion devoted to abstracts and notes on new remedies from 347 pages to 530 pages. Mr. J. O. Braithwaite remains in charge of the abstracts. The official information respecting the Pharmaceutical Society of Great Britain does not err on the side of length. We are not sure that we miss that section of the extinct "Calendar" which gave us the days of the month enlivened with such entries as "Crystal Palace opened, 1854"; but some of the details now deleted (for example, the lists of prizewinners) were of distinct interest, and the only way to possess them, if the deletion is final, will be to secure a "Calendar" of the year 1918 or earlier. The "Year-Book" apparently closed for press just before the publication in THE CHEMIST AND DRUGGIST of the third supplement to the French Codex (C. & D., II, 1923, pp. 588 and 623).

Notes on Books

"DAEDALUS, OR SCIENCE AND THE FUTURE," a paper read before a Cambridge society a year ago by Mr. J. B. S. Haldane, and now published in a slightly expanded form (it may still be read in an hour or so), is evidently intended to make our flesh creep. His thesis is that modern science is a sort of Frankenstein's monster, a creature we have invented and whose virtually helpless victims we now are. We have, as he puts it, "released from the womb of matter a Demogorgon" which may at any moment "hurl us into the bottomless void"; or, more horrible vision still, man is becoming a mere parasite of machinery "which will successively usurp his activities and end by ousting him from the mastership of this planet." And it must be confessed that the facts he alleges in support of this view—or at least of its plausibility—are disquieting. He does not, indeed, confine himself to facts, but in the form of a myth suggests "a few obvious developments" of science in the near future, the result of which, if it were not the destruction of the present world-system, would still be "intolerable in conjunction with the present relations between classes and sexes." The future lies, he says, with the chemist and biologist, but particularly with the latter, who has the power to alter the very basis of human character. Science is non-moral; the scientist is apt to be a man with a passion for truth as he conceives it. We have "little to fear from the man whose reason is the servant of his passions," but we should "beware of him in whom reason has become the greatest and most terrible of the passions." Such men care little what will happen when they "throw down their dragon's teeth into the world"; it is nothing to them that "a man armed with science is like a baby with a box of matches." The only hope for the world is that moral progress may possibly keep pace with scientific; but he does not seem to see any sign of this at present, and ends upon a decidedly pessimistic note.

College Notes

SUNDERLAND TECHNICAL COLLEGE

THE Botanical Society of this college visited Morpeth district on April 21. Much botanical material was obtained, the following commanding most attention:—Celandines, anemones, primroses, butterbur, dog's mercury, golden saxifrage, moschatel, barren strawberry, wood sorrel, great hairy woodrush, field woodrush, dog violet, elm, willows, a specimen of juniper, and one of *thuja occidentalis* in flower. The next ramble will be held on May 4, to Wylam and Ovingham district.

Starting a Business

CHEMISTS contemplating opening a pharmacy will find the following particulars, which have been forwarded by a correspondent who has recently started a branch business, a useful guide. In addition, an article on the subject in the *C. & D.*, II, 1922, p. 408, and the hints given in our issue of February 2 (p. 180) should be carefully considered. The pharmacy is situated in a seaside town on the South Coast and consists of two rooms, separated by the dispensing screen, the front room being the shop and the back the dispensing department and stockroom. It is double-fronted, with the counter on one side, the other side having cupboards with glass doors at the top and wooden ones underneath. The back room has pigeon-hole shelves all round. The windows are enclosed to a height of about five feet, and the shelves round the sides of the windows angled (this was included in the fitting cost). The carboys are on stands. Solid oak woodwork was employed throughout, the doors of the cases being one-inch thick. It is interesting to note that the contract for the shop-fitting went to a local firm, whose tender (£260) was £100, and in one case £140, less than their competitors. The total cost of opening the business was £482 15s. 11d., which, with the shop-fitting, was accounted for as follows: Mats, etc., £1 6s.; licences, 10s.; lettering shop front, £3; telephone, £2 11s. 1d.; chairs, £1 17s. 11d.; linoleum, £12 18s. 8d.; carboys, £1 10s.; electric-light fittings, £5 17s.; clock, £3; and stock, £190 5s. 3d. The articles purchased by the last-mentioned sum may be classified as follows, the figures in parentheses, those of the previous correspondent who has now forwarded us his stock sheets, being given for the purpose of comparison:—

	£ s. d.	£ s. d.
Stationery	6 17 3	(17 13 2)
Soap	5 17 5	(4 5 7)
Sundries	72 6 7	(49 8 4)
Utensils, etc.	22 0 5	(11 4 1)
Drugs	33 12 10	(59 1 7)
Patents	41 16 5	(35 15 2)
Pills	1 0 9	(2 4 11)
Photographic	6 13 7	(—)
Capsules	—	(0 15 6)
	190 5 3	(180 8 4)

While the total value of the stock is approximately the same in each instance, the difference in the amounts expended is largely accounted for by the different ideas of classification. Several changes have also taken place in the prices of "Patents and Proprietaries" during the past two years. The following lists give the details of the stock purchased by our former correspondent referred to above:—

BOTTLES

Vials

6 doz. each: 3ij., 3ss., 3j., 3iss., 3ij.

Dispensing Bottles

6 doz. each: 3ij., 3iv., 3vj., 3vij., plain.

6 doz. each: 3vj., and 3vij. tables.

3 doz.: 3xij., plain.

1 doz. each: 3x., 3xvj., 3xx., plain.

4 doz. each: 3xxxij., 3xi., plain.

Poison Bottles

3 doz. each: 3ij., 3ss., 3i., 3iss., 3ij.

3 doz. each: 3ij., 3iv., 3vj., 3vij.

1 doz. each: 3x., 3xij., 3xvj., 3xx.

Own Proprietaries

6 doz. each: 3i., 3ij., 3iss., 3v., panel.

6 doz. each: 3ij., 3iv., 3vj., glycerin.

3 doz.: 3vj., ideal.

POTS AND BOXES

Ointment pots: 3 doz. 3i.; 1 doz. each 3ss., 3ij., 3iv.

Pill boxes, p.o.: 3 gross each 3j. and 3ij.

Pill boxes, p.s.: 6 doz. each xij. and xxiv.

Powder boxes, slide: 1 doz. each vj., xij., and xxiv.

Chip boxes, c.d.: 1 gross each 3ss., 3ij.

Chip boxes, deep: 1 gross each 3j., 3iv.

Ointment tins: 1 gross each 1d., 2d.

Ointment (eye) tins: 3 doz.

Magnesia boxes: 1 gross 1d.

Chucks: 2 gross $\frac{1}{2}$; 1 gross $\frac{1}{2}$.

DRESSINGS

3 lb. Boric lint	1 yard Soap plaster
1 lb. Boric wool	1 yard Belladonna plaster
3 lb. White lint	1/2 doz. Belladonna plasters
3 lb. White wool	1/2 doz. Strengthening plasters
1 doz. Bandages, 1 in., 1 $\frac{1}{2}$ in., 2 in., 2 $\frac{1}{2}$ in., 3 in.	1/4 doz. Belladonna breast plasters
1 doz. Bandages, N.H.I., 1 in., 1 $\frac{1}{2}$ in., 2 in., 2 $\frac{1}{2}$ in., 3 in.	1/2 doz. Corn plasters in boxes — thick
1/6 doz. Bandages, crepe, 2 $\frac{1}{2}$ in., 3 in.	1/2 doz. Corn plasters in boxes — thin
1/6 doz. Bandages, crepe, N.H.I., 2 $\frac{1}{2}$ in., 3 in., 3 $\frac{1}{2}$ in.	3 doz. Corn plasters, loose — thick
1/4 doz. Oiled silk	3 doz. Corn plasters, loose — thin
1 yard Oiled silk, yellow	3 doz. Bunión plasters
2 yards Gauze tissue	3 doz. Adhesive plasters
3 doz. Court plaster	1/2 doz. Adhesive plasters
1 yard Adhesive plaster	

PACKED GOODS

Doz. s. d.	Doz. s. d.
1/4 0 6 Bath powder	1/4 1 0 Glyc. and cucumber
1/2 0 6 Bay rum	1/2 Hair dye (assorted)
1/4 1 0 Bay rum	3/4 Hair lotion (assorted)
1/2 0 6 Bay rum and can- tharides	3 Hair wash (borax, camphor and rose- mary)
1/4 1 0 Bay rum and can- tharides	1/2 Household ammonia
1/2 3ij. Benzene	3 Lanoline (tins)
1/4 3iv. Benzene	1/2 tubes Lanoline
1/2 0 6 Benzoin skin food	1 0 6 Lip salve
1/4 1 0 Benzoin skin food	3 0 1 Lip salve
1/2 0 6 Brilliantine	1 Menthol snuff
1/2 1 0 Brilliantine	1/2 tubes Oatmeal cream
3 0 1 $\frac{1}{2}$ Camphor ice	1/4 0 6 Oatmeal powder
1/2 0 6 Camphor ice	3 Poudre de riz
1/4 0 6 Carlsbad powder	3 0 1 Sachets
1/2 4 oz. Citrate of magnesia	1 0 6 Smelling salts
1/4 8 oz. Citrate of magnesia	1/4 1 0 Smelling salts
1/2 4 oz. Corn cure	3/4 Glycerin supposi- tories (assorted)
1/2 4 oz. Cod-liver oil emul- sion	1/2 2 $\frac{1}{2}$ oz. Toilet paraffin
1/2 8 oz. Cod-liver oil emul- sion	1/4 5 oz. Toilet paraffin
1/4 16 oz. Cod-liver oil emul- sion	2 tubes Tooth paste (assorted.)
1/4 1 0 Cucumber and ben- zoin	4 0 6 Tooth powder (as- sorted)
1/2 1 lb. Ext. malt and oil	6 0 1 Vaseline
1/4 2 lb. Ext. malt and oil	3 0 2 Vaseline
1 Health salts (tins)	1 0 6 Violet hair oil
1/2 Health salts (bottles)	6 0 1 Violet powder
2 $\frac{1}{2}$ Foot powder	1/2 0 6 Water softener
6 $\frac{1}{2}$ Fuller's earth	1/4 0 6 Waterglass
1/2 0 6 Glyc. and cucumber	1/4 1 0 Witch-hazel foam
	1/2 0 6 Witch-hazel foam

SUNDRIES

Doz.	Doz.
1/2 Acid tubes	1/6 Litmus books
5 Baby soothers	1/2 Loofahs
1/6 Bed pan	1 Nail files
1/4 Body belt	1/4 Nail polishers
1/6 Breast reliever	1/2 Medicine tumblers
1/12 Bronchitis kettle	1/2 Medicine droppers
2 Bottle brushes	2 Menthol cones
9 Camel-hair brushes	1 Mustard leaves
1/2 Throat brushes	1/3 Nipple shields
1/6 Dental-plate brushes	2 $\frac{1}{2}$ Puffs
1 $\frac{1}{2}$ Hair brushes	1/4 Puff boxes
1 Nail brushes	1 Pumice stone
1/2 Shaving brushes	1 Bone rings
4 Tooth brushes	Safety pins
1/4 Tooth brushes (badger)	1 Nail scissors
1/2 Caustic points	1/2 Seidlitz powders (boxed)
1/2 Chamois leathers	12 Seidlitz powders (loose)
2 $\frac{1}{2}$ Combs	1/2 Soap cases
1 Combs, pocket	1/6 Spitting cups
2 $\frac{1}{2}$ Combs, scurf	2 $\frac{1}{2}$ Sponges
1/2 Corn files	3/4 Sponge bags
1/4 Drinking straws	1/6 Throat sprays
1/4 Enemas	1/4 Sulphur candles
1/4 Vagina pipes (glass)	1/12 Douche (complete)
1/2 Eye baths	1/12 Douche (complete, glass)
1/2 Eyebrow pencils	1/4 Douche fittings
1 Eye shades	1/6 Douche tubing
1/2 Feeders (complete)	1/4 Splinter forceps
1/2 Feeders (spare)	1/6 Nasal irrigator
2 Spare teats	1 Suspenders
2 Spare valves	3/4 Syringes
1/3 Feeding cups	1/2 Thermometers (house)
1/12 Feeding cups (ideal)	1/6 Thermometers (bath)
1 Finger stalls	1/2 Thermometers (clinical)
2 $\frac{1}{2}$ Washing gloves	1 Toilet rolls
1 Washing squares	1 Tooth picks
3 Goldbeaters' skin	1 Tooth-stopping
1/4 Hot-water bottles (stone)	3/4 Trusses
1/4 Hot-water bottles (India- rubber)	1/6 Urinals
1/2 Spare washers	1/4 Vaccination shields
1/4 Teats	1/6 Vacuum flasks
1/4 Valves	1/6 yds. Waterproof sheet (double)
1/12 Inhaler	3/4 Wrist straps

PATENTS AND PROPRIETARIES

Doz.	s.	d.		Doz.	s.	d.	
1/12	1	3	Albert's Grasshopper ointment	1/12	1	6	Castols
1/12	2	9	Alkia saltrates	1/4	0	7½	Christy's smoker's powder
1/6	0	10½	Alcock's plasters	1/12	1	3	Cicfa
1/12	4	0	Allen's hair restorer	1/12	3	0	Cicfa
1/12	2	0	A. & H. bynin	1/6	2	6	Clarke's blood mixture
1/12	3	0	A. & H. byno hypophosph.	1/6	1	3	Clarke's night light
1/6	2	3	A. & H. diet	1/12	0	8	Clarke's glycola
1/12	4	6	A. & H. diet	1/6	1	0	Cockle's pills
1/6	1	4	A. & H. feeders	1/12	3	0	Wincarnis w. quinine
1/2	0	4	A. & H. teats	1/12	1	0	Colgate's dental powder
1/2	0	3	A. & H. valves	1/2	0	7½	Colgate's dental cream
1/12	0	9	A. & H. food measures	1/4	1	0	Colgate's dental cream
1/12	0	7	A. & H. food gauge	1/6	1	3	C.B. chlorodyne
1/6	2	3	A. & H. No. 1 food	1/12	3	0	C.B. chlorodyne
1/12	4	6	A. & H. No. 1 food	1/6	1	3	Cond's fluid
1/6	2	3	A. & H. No. 2 food	1/6	1	3	Cow & Gate ful cream
1/12	4	6	A. & H. No. 2 food	1/12	2	6	Cow & Gate ful cream
1/4	2	6	A. & H. No. 3 food	1/6	1	1½	Cow & Gate half cream
1/12	2	6	A. & H. rusk's	1/12	2	2	Cow & Gate half cream
1/12	0	10	Allinson's food	1/6	1	0	Creame Simon
1/4	0	6	Amami nail stones	1/12	2	6	Cuticure ointment
1/6	1	6	Amami henna shampoo	1/12	0	7	Daisy powders
1/12	1	3	Amami cream	1/12	1	6	Daisy powders
1/4	1	3	Angier's emulsion	1/6	1	3	Danderine
1/6	3	0	Angier's emulsion	1/12	2	6	Danderine
1/12	5	0	Angier's emulsion	1/12	1	3	Davis pills
1/6	1	3	Antexema	1/6	1	0	Dinneford's m a g n e s i a
1/12	1	3	A.K. tablets	1/6	2	6	Doan's pills
1/6	1	6	Anzora viola	1/12	1	3	Doan's dinner pills
1/6	1	6	Anzora cream	1/4	0	10½	Dorin's powder
1/12	2	6	Anzora cream	1/4	1	0	Dorin's powder comp
1/6	1	0	A. & P.'s camphor pilules				
1/12	1	3	A. & P.'s Sanacine cough pills	1/12	1	0	Dutch drops
1/12	1	3	Beecham's cough	1/12	1	3	Eadie's pills
1/2	1	3	Beecham's pills	1/6	1	3	Eastern Foam
1/12	2	6	Beecham's pills	1/12	1	½	Edwards' A s t i n e
1/12	5	0	Beecham's pills	1/12	1	0	Edwards' cream
1/6	1	1½	Beetham's Lait	1/12	3	0	Edwards' Astol
			Larola	1/4	1	1½	Edwards' Harlene
1/6	2	0	Benger's food	1/12	2	9	Edwards' Harlene
1/6	3	6	Benger's food	1/12	1	½	Edwards' brilliant
1/12	1	3	Bile beans	1/6	2	9	Eno's fruit salt
1/12	1	3	Bishop's Varalettes	1/4	1	3	Erasmic vanishing cream
1/12	3	0	Bisurated magnesia	1/6	0	9	Eucryl Lycrel
1/6	1	3	Bisurated magnesia tablets	1/6	1	3	Eucryl Lycrel
1/12	1	3	Blanchard's pills	1/4	1	0	Eucryl tooth paste
1/4	0	6	Bond's ink, non-heat	1/1	0	7½	Eucryl tooth powder
1/12	1	0	Bond's ink, non-heat	1/4	1	2	Eucryl tooth powder
1/2	1	0	Bourjols Java powder	1/4	1	3	Euthymol tooth paste
1	0	7½	Bourjols Java powder	1/2	0	1	Farmer's phosphorus
1/4	1	3	Bourjols powder comp	1/4	0	3½	Farmer's phosphorus
			pact	1/4	0	7	Farmer's phosphorus
1/4	1	oz.	Bovril	1/12	4	0	Fellows' syrup
1/4	2	oz.	Bovril	1/12	1	1½	Fennings' C.C. powders
1/12	4	oz.	Bovril	1/12	2	9	Fennings' C.C. powders
1/12	8	oz.	Bovril	1/12	1	1½	Fennings' H.C. powders
1/12	1	lb.	Bovril	1/12	1	½	Fennings' worm powders
1/6	1	3	Bovril, invalid	1/12	1	½	Fennings' lung healers
1/12	2	3	Bovril, invalid	1/6	1	½	Fennings' fever cure
1/6	2	3	Brand's ess. beef	1/2	0	4½	Ferris' Nigroids
1/12	2	9	Brand's ess. chicken	2	0	1	Fly papers
1/12	1	0	Brand's meat lozenges	1/12	2	2	Formamint
1/12	1	3	Bragg's charcoal biscuits	1/12	0	8½	Frame food
1/12	1	3	Bragg's charcoal lozenges	1/12	1	3	Frame food
1/12	1	3	Brown's bronchial troches	1/12	1	3	Freeman's Chloro-
1/12	1	3	Bunter's nervine	1/12	2	6	Frozoclone
1/12	0	9	Burgess Lion ointment	1/12	1	3	Galloway's c o u g h mixture
1/12	1	3	Burgess Lion ointment	1/4	0	6	Gibbs' dentifrice
1/12	1	3	Burgess Lion pills	1/6	1	3	Glaxo
3	0	1½	Butterworth's face powder tablets	1/6	1	2	Glaxo
1/4	0	6	Butterworth's nail polish	1/12	1	3	Glaxo
1/12	1	3	Cadum	1/12	1	6	Glaxo feeders
1/4	1	3	Californian syrup of figs	1/4	0	3½	Glaxo teats
1/4	2	0	Californian syrup of figs	1/4	0	3	Glaxo valves
1/12	1	3	Calox	1/12	1	3	Glycothymoline
1/6	1	0	Calvert's acid No. 5	1/12	1	0	Goddard's cloth halls
1/12	1	3	Calvert's ointment	1/6	1	3	
1/12	0	6	Calvert's disinfect. powder	1/12	1	0	
1/2	0	6	Calvert's tooth powder	1/6	1	3	
1/4	1	0	Calvert's tooth powder	1/12	1	3	
			Carter's pills	1/4	0	3½	
1/6	1	0	Cassell's tablets	1/4	0	3	
1/6	1	3	Cassell's tablets	1/12	1	3	
1/12	3	0	Cassell's tablets	1/6	1	0	

PATENTS AND PROPRIETARIES—*continued*

Doz.	s.	d.		Doz.	s.	d.	
1/4	0	4½	Greenwich lemonade powder	1/12	2	0	Orlex compound
1/4	0	6	Grossmith's Phul Nana cachous	1/6	0	6	Osborne's glycerin jelly tubes
1	0	8½	Grossmith's Phul Nana face powder	1/2	0	7½	Osyl tooth paste
1/4	1	4	Grossmith's Phul Nana face powder	1/6	0	6	Osyl tooth powder
1	0	1½	Grossmith's Phul Nana sachets	1/6	1	6	Ovaltine
1	0	8½	Grossmith's Shem-el-Nessim face powder	1/12	2	6	Ovaltine
1/4	1	4	Grossmith's Shem-el-Nessim face powder	1/12	4	6	Ovaltine
1	0	1½	Grossmith's Shem-el-Nessim sachets	1/2	1	3	Owbridge's lung tonic
1/12	1	3	Harrison's pomade	1/12	2	6	Owbridge's lung tonic
1/4	0	3	Hobson's Choice	1/12	1	oz.	Oxo
1/12	1	3	Holloway's ointment	1/12	2	oz.	Oxo
1/12	1	3	Holloway's pills	1/6	0	6	Oxo cubes
1/12	1	3	Homoea	1/2	0	3	Papier poudré
1/12	1	3	Hooper's pills	1/2	0	6	Papier poudré
1/6	2	0	Horlick's malted milk	1/12	2	9	Parmit
1/12	3	6	Horlick's malted milk	1/6	1	3	Pears' solid brilliantine
1/6	0	7½	Horlick's tablets	1/6	1	3	Pears' talcum powder
1/12	1	3	Horlick's tablets	1/6	0	6	Pears' violet powder
1/12	1	6	Icilm cream, tinted	1/12	1	3	Pepper's quinine and iron tonic
1/4	1	0	Icilm cream	1/12	1	3	Pepper's sulpholine lotion
1	0	3	Icilm shampoos	1/4	1	3	Peps
1	0	3	Icilm shampoos, dry	1/12	0	7½	Perio nail stones
1/6	0	6	Icilm nail polish	1/12	4	0	Phenimol
1/6	0	6	Izal	1/2	0	6	Pommade Hongroise
1/12	1	0	Izal	1/6	1	6	Pond's vanishing cream
1/12	1	3	Iron jelloids, No. 1	1/6	1	6	Potter's asthma cure
1/4	1	3	Iron jelloids, No. 2	1/6	1	6	Potter's asthma cigarettes
1/12	3	0	Iron jelloids, No. 2a	1/12	0	9	Potter's smoking mixture
1/4	1	3	Iron jelloids, No. 2a	1/12	1	3	Potter's five barks 4 lb.
1/12	3	0	Iron jelloids, No. 2a	1/6	1	3	Powell's balsam
1/6	0	7½	Jeyes' fluid	1/12	2	6	Powell's balsam
1/12	1	0	Jeyes' fluid	1/4	0	3	Rankin's ointment
1/12	1	3	Kaputine powders	1/4	6	0	Rankin's ointment
1/6	0	11½	Kay's essence	1/12	2	3	Rendell's pessaries
1/6	1	3	Kay's essence	1/4	1	9	Rendell bath saltrates
1/12	3	0	Kay's essence	1/12	0	2	Ridge's food
1/12	1	3	Kay's (Worsdell's) pills	1/12	0	8	Ridge's food
1/2	0	3	Keating's powder	1/12	1	2	Ridge's food
1/2	0	6	Keating's powder	1/2	0	6	R. & G.'s lip salve
1/4	1	0	Keating's powder	1/6	2	3	Sanatogen
1/12	1	3	Keating's cough lozenges	1/12	3	3	Sanatogen
1/6	0	9	Keene's corn cure	1/12	5	9	Sanatogen
1/12	1	3	Koko	1/12	1	3	Sanitas fluid
1/6	3	0	Koko	1/12	0	8	Sanitas fluid
2	0	1½	Kolene	1/12	0	6	Sanitas powder
1/6	0	6	Kolene	1/4	0	6	Saunders' face powder
1/4	1	3	Kolynos tooth paste	1/12	1	3	S. and M. Jenner's lozenges
1/12	cards	0	Koon plasters	1/6	1	2	S. and M. food
1/12	1	0	Kraska	1/12	2	4	S. and M. food
1/12	1	6	Kruschen salts	1/12	1	6	S. and M. cocoa and milk
1/12	2	6	Kutnow's powder	1/4	1	3	Scott's emulsion
1/12	1	9	Lactagol	1/6	2	6	Scott's emulsion
1/6	1	3	Langdale's cinnamon mon	1/12	4	6	Scott's pills
1/12	1	3	Langdale's cinnamon tablets	1/12	1	3	Scrubbs' ammonia
1/12	1	oz.	Lenco	1/6	0	7½	Sectocine
1/12	2	oz.	Lenco	1/4	1	3	Seigel's syrup
1/12	4	oz.	Lenco	1/12	2	4	Seigel's syrup
1/12	2	0	Limestone phosphate	1/12	1	3	Senler's cloth balls
1/6	1	3	Liquofruit	2	0	2	Senler's hat cleaner
1/12	3	0	Liquofruit	1/12	2	3	Singleton's ointment
1/12	1	0	Lockyer's hair restorer	1/6	1	3	Sloan's liniment
1/2	0	10	Luton hat dyes	1/12	1	3	Smedley's paste
1/6	1	3	Macqueen's vegetine pills	1/2	0	3	Snowfire tablets
1/12	1	0	McClinton's shampoo powders	1/6	1	½	Steedman's powders
1/12	0	6	Matthews' Fuller's earth	1/6	2	9	Steedman's powders
1/6	0	6	Matthews' Fuller's cream	1/6	1	3	Tatcho
1/12	1	6	Mellin's food	1/6	2	4	Tatcho
1/12	2	6	Mellin's food	1/2	0	7½	Tetlow's Swandown powder
2	0	14	Melrose tablets	1/4	1	3	Thermogene
1/12	1	0	Mennen's powder	1/12	3	0	Thermogene
1/12	3	6	Mercolised wax	1	0	2	Tidman's sea salt
1/12	0	6	Nalidre's dog soap	1/12	1	3	Tiz
1/12	1	0	Neave's food	1/12	1	3	Towle's pills
1/12	1	0	Nestle's Milo food	1/12	3	6	Valentine's meat juice
1/12	2	0	Nestle's Milo food	1/12	1	0	Valentine's walnut stain
1/6	1	14	Nestle's milk	1/6	0	6	Vaseline camphor ice
1/12	0	9	New Skin	1/12	1	3	Vaseline, capsicum
1/2	1	0	Poudre Nildé	1/12	1	6	Vaseline hair tonic
1/6	1	½	Oatine cream	1/4	0	8½	Vaseline pomade
1/12	1	0	Oatine snow	1/12	1	5	Vaseline pomade
				1/2	0	6	Vaseline
				1/4	1	0	Vaseline
				1/4	0	7½	Vaseline, white
				1/4	0	11½	Veno's cough cure
				1/4	1	3	Veno's cough cure
				1/12	3	0	Veno's cough cure

PATENTS AND PROPRIETARIES—*continued*

Doz.	s.	d.	Doz.	s.	d.
1/12	1	3	Veno's	seaweed	
			tonic		
1/4	1	0	Ven Yusa	cream	
1/6	0	6	Vinolia	Premier	
			dentifrice		
1/12	1	3	Vinolia	talc powder	
1/2	0	6	Vinolia	Royal tooth	
			paste tubes		
1/4	1	0	Vinolia	Royal tooth	
			paste tubes		
1/2	1	3	Vinolia	Royal shav-	
			ing powder		
1/4	0	6	Vinolia	Victory	
			cream tubes		
1/6	1	3	Vinolia	Victory	
			cream pots		
1/4	1	1	Viro		
1/4	1	8	Viro		
1/6	3	3	Viro		
1/12	1	3	Welch's	spills (Kear-	
			ley's)		

PILLS AND CAPSULES

1 gross	Pil. aloes et ferri	1 doz.	Backache pills (pkd.)
1 gross	Pil. aloes et myrrh.		
1 gross	Pil. aperiens		
1 gross	Pil. ferri	1/2 doz.	boxes Santal capsules
1 gross	Pil. calc. sulph. gr. 1/2	1/2 doz.	boxes Copaiba cap-
1/2 gross	Pil. coloc. co.		sules
1 gross	Pil. coloc. c. hyoscy.	1/2 doz.	boxes Ammon. quinine
1 gross	Pil. hydrarg.		capsules
1/2 gross	Little liver pills	1/2 doz.	boxes Anumon. quin.
1/2 gross	Pil. puliegii		and cinnamon cap-
1 gross	Pil. rhei co.	1/2 doz.	sules
1/2 gross	Pil. Blaud (s.c.)	1/2 doz.	boxes Cascara capsules
1/2 gross	Pil. Blaud (g.c.)	1/2 doz.	boxes Castor oil cap-
1 doz.	Little liver pills (pkd.)		sules
1 doz.	Wind pills (pkd.)		

LOZENGES AND PASTILLES

2 lb.	Acid tablets	1/2 lb.	Ipecac. loz.
2 lb.	Antiseptic past.	4 lb.	Linseed, liq. and chlor.
1/2 lb.	Aperient loz.		loz.
2 lb.	Bismuth loz.	1 lb.	Liquorice and menthol
2 lb.	Bismuth and soda loz.		pellets
2 lb.	Brompton loz.	2 lb.	Menthol and eucal. past.
1 lb.	Cachous	1 lb.	Peppermint loz.
1 lb.	Chlorate of potash pellets	4 lb.	Pine loz.
2 lb.	Cough loz.	1 lb.	Soda mints
1 lb.	Digestive loz.	1 lb.	Sulphur loz. (Garrod's)
1 lb.	Formalin loz.	4 lb.	Sulphur tablets
2 lb.	Glycerin past.	1/2 lb.	Tannin loz.
2 lb.	Glycer. and black currant past.	3 doz.	Worm cakes

DRUGS

1 lb.	Acacia gum.	4 lb.	Amyl pulv.
1/2 lb.	Acacia gum. pulv.	4 oz.	Anchusæ rad.
1/2 oz.	Acetanilid.	2 lb.	Anthem. flor.
4 oz.	Acet. canthar.	1 oz.	Antim. tart.
Winch.	Acet. dest.	4 oz.	Aq. anethi conc.
4 oz.	Acet. ipecac.	2 oz.	Aq. aurant. conc.
4 oz.	Acet. scillaæ	2 oz.	Aq. cinnam. conc.
Winch.	Acid. acetic.	2 oz.	Aq. sambuci conc.
8 oz.	Acid. acet. glac.	8 oz.	Aq. laurocerasi
4 oz.	Acid. acet. arom.	8 oz.	Aq. menth. pip. conc.
2 oz.	Acid. acetyl sal.	8 oz.	Aq. rosa trip.
1/2 oz.	Acid. arsen.	2 gal.	Aq. dest.
2 oz.	Acid. benz. synth.	1/2 oz.	Argent. nit.
2 lb.	Acid. boric. cryst.	1/2 oz.	Argent. protein.
14 lb.	Acid. boric. pulv.		
8 oz.	Acid. carbol. cryst.	2 oz.	Barii sulphid.
8 oz.	Acid. carbol. liq.	8 oz.	Bismuth. carb.
8 oz.	Acid. citric. pulv.	2 oz.	Bismuth. subnit.
1 lb.	Acid. hydrobrom. dil.	7 lb.	Boracis pulv.
8 oz.	Acid. hydroch. pur.		
Winch.	Acid. hydroch. coml.	1/2 oz.	Caffein.
2 x 1 oz.	Acid. hydrocyan. dil.	1 oz.	Caffein. cit.
1 lb.	Acid. nitric.	1 lb.	Calamin.
1 lb.	Acid. oxalic.	7 lb.	Calc. carb. præcip.
8 oz.	Acid. phosph. conc.	8 oz.	Calc. chlor. fus.
2 oz.	Acid. salicyl.	1 lb.	Calc. hydras.
1 lb.	Acid. sulphuric.	1/2 oz.	Calc. lact.
4 oz.	Acid. sulphuric.	1 lb.	Camphora (flores)
2 oz.	Acid. tannic.	1 lb.	Camphora (tab.)
1 lb.	Acid. tart. pulv.	8 oz.	Capsici pulv.
2 lb.	Adeps prep.	1 lb.	Carbo. lig. pulv.
7 lb.	Adeps benz.	1/2 oz.	Carmin.
2 lb.	Adeps lanæ	1 lb.	Cera alb.
8 oz.	Æther B.P.	1 lb.	Cera flav.
8 oz.	Aloes Barb.	1 lb.	Cetaceum.
8 oz.	Aloes Soc. pulv.	1 lb.	Chloroform.
1/2 oz.	Aloin.	8 oz.	Cinchon. cort.
8 oz.	Alum. pulv. pur.	31.	Cocain. hyd.
4 lb.	Alum. pulv.	31.	Codein. phosph.
8 oz.	Alum. exsic.	1 lb.	Collod. meth.
4 oz.	Ammon. brom.	2 lb.	Conf. sennæ
2 lb.	Ammon. carb.	4 oz.	Copaba
8 oz.	Ammon. carb. pur.	31.	Coumarin.
2 lb.	Ammon. chlor. coml.	2 oz.	Creosot.
8 oz.	Ammon. chlor. pur.	1 lb.	Cret. Gall. pulv.

DRUGS—*continued*

1 lb.	Cret. preparat.	8 oz.	Liq. rhamni pro syr.
1/2 oz.	Crocus Valent.	8 oz.	Liq. rheal pro syr.
1 lb.	Cupri sulph.	1 lb.	Liq. roææ dule.
8 oz.	Curcumæ pulv.	8 oz.	Liq. senna dule.
8 oz.	Currie powder	8 oz.	Liq. tolu. pro syr.
		1 oz.	Lithii cit.
1 lb.	Dec. aloes co. conc.	1 lb.	Magnes. levii
8 oz.	Dec. sarsa co. conc.	8 oz.	Magnes. pond.
8 oz.	Dec. scopar. conc.	1 lb.	Magnes. carb. lev.
3j.	Diamorph. hyd.	1 lb.	Magnes. carb. pond.
		2 lb.	Magnes. cit. eff.
8 oz.	Elix. acetomorph.	28 lb.	Magnes. sulph.
4 oz.	Emp. canthar.	1 lb.	Magnes. sulph. exsco.
1 lb.	Emp. plumbi	4 oz.	Manna
4 oz.	Ess. vanille	2 lb.	Maranta
1 oz.	Ext. aloes Barb.	4 lb.	Mel
1/2 oz.	Ext. bellad. sicc.	1 oz.	Menthol
1 oz.	Ext. cascar. sag. sicc.	4 oz.	Methyl salicyl.
2 lb.	Ext. cascar. sag. liq.	1 lb.	Mist. scinæ co.
2 oz.	Ext. cinchon. liq.	1/2 oz.	Morph. acet.
1 oz.	Ext. coloc. co.	1/2 oz.	Morph. hyd.
4 oz.	Ext. ergot. liq.	1 lb.	Mustard bran
1 lb.	Ext. glycyrrh. liq.		
2 oz.	Ext. hamamel. liq.	1 lb.	Naphtha
1/2 oz.	Ext. hoysie.	1 oz.	Ol. abietis
2 lb.	Ext. malti liq.	1 oz.	Ol. amygdal.
1/2 oz.	Ext. nucis vom. sicc.	4 oz.	Ol. anisi
1/2 lb.	Ext. nucis vom. liq.	1/2 gall.	Ol. arachis
		2 oz.	Ol. cajuput.
1 lb.	Ferri et am. cit.	1 lb.	Ol. camph. ess.
4 oz.	Ferri et quin. cit.	2 oz.	Ol. caryoph.
8 oz.	Ferri oxid. præcip. rub.	1 oz.	Ol. cassia
8 oz.	Ferri sulph.	1/2 oz.	Ol. ceteaci
8 oz.	Ferri sulph. gran.	4 oz.	Ol. cinnam.
8 oz.	Ferri sulph. exsic.	2 lb.	Ol. citronell.
1 lb.	Fuller's earth, lump	1 oz.	Ol. eucalypt.
		2 oz.	Ol. junip. bace.
4 oz.	Galle pulv.	4 oz.	Ol. lavand. opt.
1 lb.	Gent. rad. incis.	8 oz.	Ol. linonis
14 lb.	Glycerin.	2 oz.	Ol. menth. pip.
1/2 lb.	Glucosum	1 gal.	Ol. morrhua
4 oz.	Glycyrrh. rad. pulv.	1 oz.	Ol. myristic.
1 lb.	Glycyrrh. rad. incis.	1/2 gall.	Ol. olivæ
		2 oz.	Ol. pulegii
Winch.	Ol. ricini	1 oz.	Ol. rosmarini
2 oz.	Ol. sambuci	1 lb.	Ol. sassafras
4 oz.	Ol. sinapis express.	1 lb.	Ol. succini
1/2 gal.	Ol. terèb.	1/2 lb.	Ol. terèb. rect.
1/2 lb.	Ol. theobrom.	1/2 lb.	Ol. thymi
1/2 lb.	Ol. iodid.	1 oz.	Ol. verbenæ
1/2 oz.	Opil. pulv.	1/2 lb.	Os sepiæ pulv.
1 lb.	Oxymel. scillaæ	1 lb.	Papav. cap.
		2 lb.	Paraf. dur.
Winch.	Paraf. liq.	7 lb.	Paraf. molle flav.
2 lb.	Paraf. molle alb.	2 oz.	Paraldehyde
		1/2 oz.	Pepsin. pulv.
1 oz.	Phenacet.	1 oz.	Phenazonium
1 oz.	Phenacet.	1 oz.	Pil. coloc. co. pulv.
2 oz.	Pil. hydrarg.	2 oz.	Pil. rhei co. pulv.
1 lb.	Plix liquid.	1 lb.	Plumbi acet. pulv.
1 lb.	Pot. acet.	1/2 lb.	Pot. bicarb.
2 lb.	Pot. brom.	1 lb.	Pot. carb.
1 lb.	Pot. chlor.	1 lb.	Pot. cit.
1/2 lb.	Pot. cit.	1/2 lb.	Pot. iodid.
1 lb.	Pot. nit. pur.	1 lb.	Pot. nit. sec.
4 lb.	Pot. nit. sec.	1 lb.	Pot. binoval.
2 oz.	Pot. permang.	2 oz.	Pot. sulphur.
1/2 lb.	Pot. sulphur.	1 lb.	Pot. sulphurat.
1 lb.	P. aloes c. canel.	1 lb.	P. cret. arom.
1 lb.	P. glycyrrh. co.	1 lb.	P. glycyrrh. co.
1 lb.	P. ipecac. co.	1 lb.	P. rhei co.
4 lb.	Quass. lig.		
1 lb.	Quill. cort.		
1 oz.	Quin. hydroch.		
2 oz.	Quin. sulph.		

DRUGS—continued

½ oz.	Resorcin
½ lb.	Rhei rad.
½ lb.	Rhei rad. pulv.
½ lb.	Rouge, jewellers*
7 lb.	Sacch. alb.
1 lb.	Sacch. lact.
1 lb.	Sacch. ust.
1 lb.	Sal. prunel. glob.
1 oz.	Salicin.
2 lb.	Saline
1 oz.	Salol
2 oz.	Sang, dracon.
½ oz.	Santonin.
1 lb.	Sapo animal.
1 lb.	Sapo cast. (mottled)
2 lb.	Sapo dur.
½ lb.	Sapo dur. pulv.
1 lb.	Sapo moll.
2 lb.	Sennæ fol.
2 lb.	Sennæ fruct.
14 lb.	Sod. bic.
1 lb.	Sod. bic. opt.
½ lb.	Sod. brom.
1 lb.	Sod. chlor.
½ lb.	Sod. cit.
1 lb.	Sod. pot. tart.
1 lb.	Sod. phosph.
½ lb.	Sod. phosph. acid.
1 lb.	Sod. salicyl.
28 lb.	Sod. sulph.
½ lb.	Sod. sulph. exsic.
½ lb.	Sod. sulphocarb.
1 lb.	Spt. ath. nit.
2 lb.	Spt. am. arom.

DRUGS—continued

1 gal.	Spt. vini rect.
1 gal.	Spt. vini meth.
½ oz.	Strych. hyd.
½ lb.	Succ. tarax.
2 lb.	Sulph. nig.
1 lb.	Sulph. precip.
2 lb.	Sulph. rotund.
7 lb.	Sulph. sub.
14 lb.	Syr. ferri phos. co.
2 lb.	Syr. fici
1 lb.	Syr. glyceroph. co.
2 lb.	Syr. hypo. co.
½ lb.	Syr. marrub.
½ lb.	Syr. mori
W. qt.	Syr. scilla
2 lb.	Syr. sennæ
½ lb.	Syr. violæ conc.
½ lb.	Terebin.
2 lb.	Tallow
3j.	Thymol
2 oz.	Tr. aconiti
4 oz.	Tr. arnicæ
1 lb.	Tr. aurant.
4 oz.	Tr. bellad.
4 oz.	Tr. benzoin.
1 lb.	Tr. benzoin. co.
2 oz.	Tr. buchu
2 oz.	Tr. calumb.
1 oz.	Tr. canab. ind.
4 oz.	Tr. canthar.
8 oz.	Tr. capsici
1 lb.	Tr. card. co.
2 oz.	Tr. carminat.
4 oz.	Tr. catechu
8 oz.	Tr. chlorof. et mor., '14
8 oz.	Tr. chlorof. et mor., '98
4 oz.	Tr. cinchon.
8 oz.	Tr. cinchon. co.
4 oz.	Tr. cinnam.
4 oz.	Tr. colch. sem.
8 oz.	Tr. digit.
8 oz.	Tr. gelsem.
1 lb.	Tr. gent. co.
4 oz.	Tr. guaiaci simp.
4 oz.	Tr. guaiaci am.
4 oz.	Tr. hamamcl.
2 oz.	Tr. hydрастis
8 oz.	Tr. hyoscy.
4 oz.	Tr. jaborand.
4 oz.	Tr. kino
4 oz.	Tr. kramer.
8 oz.	Tr. lavand. co.
4 oz.	Tr. limon.
2 oz.	Tr. lobel. simp.
2 oz.	Tr. lobel. aeth.
8 oz.	Tr. myrrh.
8 oz.	Tr. opii
4 oz.	Tr. quillaia
2 lb.	Tr. rhei co.
8 oz.	Tr. scilla

Cost prices are not given owing to fluctuations, but they are readily accessible in THE CHEMIST AND DRUGGIST Retail Price List, in conjunction with which should be used the C. & D. Stocking Pad. The drugs and appliances mentioned in the National Health Insurance Drug Tariff also form an excellent basis for an opening order, and other items can be obtained as the peculiarities of the locality are gauged.

Co-operative Societies and Price Maintenance

At the thirteenth annual meeting of the National Co-operative Guild, held at Southport on April 19, a report was presented relating to the Proprietary Articles Trade Association. The report stated that the Co-operative Union was convening, through its sectional board, a series of conferences to deal with the position created by the increasing activities of the P.A.T.A. In addition to the question of principle involved, two reasons had led the Co-operative Union to take this step: (1) The pressure by some societies on the Parliamentary committee to take action to deal with what was becoming a serious menace to the movement; (2) the tendency of many societies to depart from the attitude taken up by the Bristol Congress in 1920, and to fall into the hands of the P.A.T.A. by signing their agreements. If the ordinary P.A.T.A. agreements, the report added, were all, co-operative societies dealing in any proprietary article would have no grievance peculiar to them, however undesirable price-fixing "of a nature which operates against the consumer's interests" might be. But in 1906 the Council of the P.A.T.A. passed the following resolution:—

(1) That no industrial co-operative society shall be supplied with any article on the P.A.T.A. list unless the society agrees not to sell below the minimum prices, and that no bonus or dividend on the purchase money or rebate in cash or goods be given, unless the value of such bonus, etc., be charged to the customer in addition to the P.A.T.A. minimum price of the article.

(2) That the P.A.T.A. list shall consist only of those articles the proprietors of which agree to the foregoing conditions relating to co-operative societies.

As a result of this resolution, supplies of proprietary articles were refused to many co-operative societies which declined to sign agreements embodying the terms of the resolution. Attention was specially directed to "the important question of principle" involved. It was an attempt to dictate to co-operative societies dealing in proprietary articles, and selling those articles on a parity with other retailers, as to what they should do with their revenue, and to destroy the root principle upon which co-operative organisations are based by preventing members of co-operative societies from obtaining any advantage to be gained from their mutual association and trading. Co-operators would not need any closer study of the operations of the Association to discern that its activities are to secure and to conserve (a) a big profit to the retailer; (b)

a larger profit to the wholesaler or factor; (c) the largest profit to the manufacturer. In the last few years the Association had developed rapidly, and widely increased the number of proprietary articles included in its list, and the opposition of the Association to co-operation was becoming an increasing menace. The comparative measure of success which had attended the operations of the Association in articles usually supplied through chemists' shops has led to an extension of the principle in some cases to commodities more usually sold as groceries, and it was all the more important, therefore, that co-operative societies should be alive to the situation. The operations of the Association had brought them within the scope of inquiries under "the Central Profiteering Act." At the annual Co-operative Congress at Bristol in 1920 a resolution was adopted (C. & D., I, 1920, p. 709) calling the attention of the Government to "the growing menace to the consumers of this country which is being exercised by the Proprietary Articles Trade Association in imposing upon retailers not only the obligation to sell their products at a price arbitrarily fixed and enforced by the Association, but also in attempting to impose differential prices for the same articles on various sections of retailers," deplored the failure of the Government to deal with "this limitation of the rights of the people" under the special legislation set up during the war, and calling upon them "to introduce legislation which will prevent the continuance of a system which disfigures the profiteering of the manufacturers concerned and enforces profiteering upon its victims." The remainder of the report closely follows the suggestion in a speech reported in the C. & D., March 8, p. 347. The nature of the Association and the character of its operations, it is stated, would seem to bring it within the broad term of "combine," and political action might be taken along the line of continuing to press the Government to introduce legislation dealing with trusts and combines. The possibility of securing a remedy in that direction, however, "is at the moment remote." It would seem that much more effective action could and should be taken by co-operative societies themselves. It should be well within the power of the co-operative movement to dispense entirely with protected proprietary articles. Immediate steps might be taken: (1) To cancel all existing agreements in respect of proprietary articles which violate the co-operative principle; (2) to refuse to sign any future agreements of a similar character; (3) to refuse to sell "protected" proprietary articles; (4) to take every possible step to increase the sale of co-operative productions by the education of co-operative members and judicious advertising.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Local Reports

ENGLAND AND WALES

Eastbourne.—A meeting of the Pharmaceutical Committee was held on April 8, at which Mr. H. C. Browne, chairman of the committee and delegate to the R.P.U. Conference, gave a report of the proceedings at that meeting. A resolution was passed that the Executive Committee of the R.P.U. should press for an increased fee on liquid medicaments in consideration of the increasing number of items per prescription (the number of items being as many as fourteen per prescription and not at all uncommon); in addition, larger quantities than formerly are ordered. In this area the increase in fee is substantiated by the increased cost in the pricing of prescriptions and the high standard in the dispensing.—A meeting of the Insurance Committee was held on April 11. The Ministry of Health communication relative to the quantities of "dangerous" drugs used in medical practice has been received. The total value of Insulin for the fourth quarter of the year was £22 6s. 3d. It was agreed that mention should be made of the disparity in the case of Insulin and similar prescriptions, between the normal fee and the outlay involved. Statistics in respect of prescriptions dealt with in 1923 showed an average cost per prescription of 10.2d.; vaccine accounts (January to September, 1923), as supplied by four doctors, amounted to £15 9s. 3d.; payments for the year ending 1923 from the Drug Fund (1922) amounted to £323 11s., and (1923) £1,636 13s. 2d.

Lancashire.—A report of the Lancashire Prescription Bureau shows that, during 1923, 1,572,576 prescriptions were dispensed, compared with 1,401,701 prescriptions in 1922. The largest total was that of Bolton, with 290,979, compared with 260,104 in 1922; and the smallest was Westmorland, with 30,189 and 32,039 respectively. The average total cost per insured person was 30.66d. in 1923 and 28.62d. in 1922. The lowest average for the respective years was 19.85d. and 21.64d., and the highest average 37.36d. and 35.23d. The average total cost per prescription was 8.57d. in 1923 and 8.82d. in 1922. The lowest average for the respective years were 7.99d. and 8.14d.; and the highest average 9.04d. and 9.35d.

Northampton.—The decision of the Minister of Health regarding an appeal by a Mr. "X," chemist, Northampton, against the action of the Insurance Committee in raising his fine of £10 to £25 for alleged carelessness in dispensing (*C. & D.*, II, 1923, p. 556) has been given. The Ministry finally adopted the original recommendation of the Subcommittee, that £10 should be inflicted, and in addition ruled that the appellant should be required to pay the expenses of the appeal. Councillor F. C. Ashford, chemist and druggist, referred to what he described as the unfair way in which the other chemists of Northampton had been treated during the last five months in regard to this case. Several chemists on the panel had been under suspicion, and no one knew it was Mr. E. Dennis, 115 Admitt Road. He had had numerous inquiries, and had in fact heard every chemist in the town mentioned as the culprit. He thought it was a very serious thing for the chemists to have a thing like that hang over their heads for five months. "As chemists," proceeded Mr. Ashford, "we have no sympathy with cases of this sort. We think that Mr. Dennis has got off very lightly." Mr. Ashford added that something ought to be done to prevent cases of that kind hanging about for five months.

Northumberland.—At a meeting of the Insurance Committee, held at Newcastle on April 15, the clerk submitted a communication from the assistant secretary of the Northumberland Pharmaceutical Committee having reference to the loss occasioned to insurance chemists dispensing Insulin, and setting forth an instance whereby an insurance chemist lost the sum of 1s. 6d. on his providing 1,400 units. It was recommended that the clerk be directed to inform the assistant secretary of the Phar-

maceutical Committee that if the cost of postage or carriage of Insulin to an insured person, paid by a chemist, is shown upon the scripts, the amount will be allowed by the pricing office as an addition to the sum ascertained to be due. And further, that the assistant secretary be informed that the Insurance Committee issue the monthly cheques to the chemists so soon as the scripts have been priced by the pricing bureau and a statement of the amount due to each chemist forwarded to the Insurance Committee. The report was adopted.

Nottinghamshire.—At meetings of the Pharmaceutical Committee and the panel chemists of the area, held on April 16, the following recommendations were made and agreed to: That panel chemists accept the terms set out in the first ten paragraphs in the letter from the Ministry of Health dated March 26, 1924, with such further revision in their favour as the Retail Pharmacists' Union may be able to effect by further negotiation. As regards Paragraph 11, while Clauses A and B may be accepted, Clause C should be subject to the new practice not working out unfavourably to the chemists. Clause D should provide for monthly revisions of prices made known to the pricing bureaux and communicated to any panel chemist on inquiry. Subject to this three-monthly price list issues would be acceptable. The Committee regrets the Ministry could not increase the dispensing fees, but desires to record its high appreciation of the masterly way in which the proposals were put before the Ministry by the Executive of the Retail Pharmacists' Union.

Stockport.—At a meeting of the Insurance Committee, on April 2, it was reported that there are thirty-nine chemists on the panel, to whom the sum of £5,716 3s. 7d. was paid last year, £839 1s. 4d. being in respect of previous years. Prescriptions dispensed during the year numbered 181,634, which constituted a record, the cost being £6,035 11s. During the year Insulin was prescribed seventy-seven times, and the cost varied from 10s. 7d. to £2 5s. 7d. per prescription.

Surrey.—At a meeting of the Insurance Committee, on March 26, the Hours of Service Subcommittee reported that at present it could not call upon the chemists to revise their closing hours so that the shops should be open after the close of the doctors' surgery hours. The Subcommittee had no evidence that a rota was necessary at the present time in any area. It was agreed that the report should be referred back for the Committee to consider the question of issuing a rota for the whole of the county.

Worcester.—At a meeting of the Insurance Committee, on March 26, the chairman reported that test prescriptions dispensed by the panel chemists in every case had been found satisfactory. Speaking of the Ministry's new proposals for checking doctors' prescriptions, he said that he was perfectly sure that the Ministry of Health were "coming down" on Worcester. The reason for this was that the average cost per prescription throughout the district was 3.5d.; in the city of Worcester the average cost per prescription was 5.3d.

SCOTLAND

Dunfermline.—The following have been elected members of the Pharmaceutical Committee of the Burgh Insurance Committee:—Messrs. J. H. Fisher, A. Macdonald, J. A. Seath, John Gilmour, Robert Robertson. At a subsequent meeting Mr. J. H. Fisher was re-appointed *Chairman* and Mr. Robt. Robertson *Secretary*.

Glasgow.—The committee appointed to consider excessive prescribing during 1922 has recently issued a report. In one case a surcharge of £25 was recommended, the doctor habitually having ordered excessive quantities of drugs for his patients at dates when previous orders should not have been exhausted. The committee found that, taking the city as a whole, the standard of prescribing was very good, and that due regard was paid to economy. In the large number of prescriptions investigated very few cases of careless or inefficient prescribing were found.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in grading, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, April 23

THE Mincing Lane produce markets having been closed during the greater part of the week under review, business has been on quite restricted lines, as there were many absentees when the markets reopened on Tuesday. More interest has been shown in agar-agar and a good business has been done forward. Beeswax continues very firm in view of the small stocks and absence of imports. Norwegian medicinal cod-liver oil is somewhat nominal at the moment in view of the much improved catch, but there is more demand at the source for natural oil for industrial purposes, and this may help to steady prices. Tinnevelly senna has sold more freely at unaltered rates. Annatto seed remains steady; business has barely been resumed in menthol and mint oil. Mercury is slightly easier in some quarters on account of pressure of re-sellers. Turpentine is cheaper. The spot position of pharmaceutical chemicals shows no change; business recommenced again on Tuesday, but there was practically nothing doing. Values are on the same level as those given in our last report, and the tone remains steady.

Cablegrams

NEW YORK, April 23.—Business is fair. Peppermint oil in tins is dearer at \$4.50 per lb. Copiaiba balsam has advanced to 32½c., and mercury to \$77.00 per flask. Cartagena ipecacuanha has declined to \$1.80, and Mexican sarsaparilla is reduced to 20c. Mandrake is cheaper at 19c., likewise taraxacum at 34c., and belladonna leaves at 26c. per lb.

BERGEN, April 23.—The total catch of cod for the whole of Norway since the opening of the season amounts to 36,800,000, against 34,700,000 for the corresponding week of last year, and the yield of steam-refined medicinal oil is 75,296 hectolitres, against 66,408 hectolitres last year. Finest new non-freezing medicinal oil is nominal at 100s. per barrel, c.i.f. principal U.K. ports.

Exchange Rates on London

The following is a list of Continental and other exchange rates against the pound sterling on London prevailing at 4 p.m. on Wednesday :-

Place	Method of Quoting	Par of Exchange	April 15	April 23
Amsterdam	Fl. to £	12.107	11.73—11.74	11.83½—11.84
Berlin	M. to £	20.43	18½—19½ billions*	18½—19½ billions*
Brussels	Fr. to £	25.22½	80½—81½	76½—77
Calcutta	Per rup.	24d.	16½d.—16½d.	16½d.—16½d.
Christiania	Kr. to £	18.159	31.48—31.52	31.50—31.55
Constitution	Pst. to £	110	800—815	800—815
Greece	Dr. to £	25.22½	238—240	217—222
Italy	Lire to £	25.22½	97½—97½	98—98½
Kobe	Per yen	24.58d.	22½d.—22½d.	21½d.—21½d.
Lisbon	Escu.	53½d.	1½d.—1½d.	1½d.—1½d.
Madrid	Pts. to £	25.22½	31.80—31.85	31.05—31.10
Montreal	\$ to £	4.86½	4.43½—4.44½	4.47—4.47½
New York	\$ to £	4.86½	4.34½—4.35½	4.39½—4.39½
Paris	Fr. to £	25.22½	69.80—69.90	65.55—65.65
Singapore	Per dol.	—	27½d.—28½d.	27½d.—28½d.
Switzerland	Fr. to £	25.22½	24.68—24.70	24.79—24.81
Vienna	Kr. to £	24.02	306,000—310,000	310,000—313,000

* Nominal.

Crude Drugs, etc.

AGAR-AGAR has commanded more interest, and in parcels afloat and for May shipment a good business has been done up to 4s. 11d. to 5s. per lb. c.i.f. for No. 1 Kobe; the spot value is 5s. 7½d. to 5s. 9d.

ANNATTO SEED remains steady, and 1s. 6d. per lb. has been paid for spot parcels of Jamaica or Madras; forward business has been quiet, but we understand that several of the large consumers have still to cover the larger portion of their requirements.

ANTIMONY.—Buyers seem very reluctant to place new orders in the unsettled and weak aspect of the market, although there has been very little further alteration over the holidays. Best English regulus stands at about £52 10s. per ton. Chinese refined has remained chiefly nominal, spot lots being called £45 to £46, but parcels for shipment might be had at about £35 to £36, c.i.f.

BISMUTH.—The tone continues very steady, there being a fairly regular demand for the ample supplies coming forward, the handling of which is well under control by the "ring," whose price for metal stands at 10s. per lb. for not less than five cwt.

CADMIUM.—The market is firm, with restricted offers on the basis of about 2s. 9d. to 3s. per lb. for fair quantities.

CAMPHOR (REFINED).—Japanese slabs are unchanged, spot offering at 3s. 2d. per lb., and to arrive 3s., c.i.f., is quoted.

CASCARA SAGRADA.—The "Harlow," from Hamburg, has brought 188 bags, the "American Shipper," from New York, 225 bags to London, and the "Celtic" 103 bags from New York to Liverpool.

CLOVES.—Zanzibar are quiet, with spot sellers at from 11d. to 1s. per lb. as to quality. To arrive, sellers of March-May shipment quote 11½d. per lb., c.i.f., and April-June shipment 11½d., c.i.f. The weekly wharf statistics show that the landings were nil, while the deliveries were 1,600 bales, leaving a stock of 38,815 bales, against 7,408 bales in 1923 and 11,720 bales in 1922.

COD-LIVER OIL.—Our Bergen correspondent writes on April 12 that the catch was very good last week, about 6,200,000. The fishery at Lofoten will be closed shortly. The total output of all the Norwegian cod fisheries, compared with that of previous years, is as follows :—

	Catch of cod	Steam refined cod liver oil	Livers for crude oils
To April 5, 1924	28,400,000	58,410 hectol.	7,422 hectol.
6, 1923	30,100,000	58,158 "	7,757 "
" 7, 1922	25,900,000	48,075 "	6,645 "
2, 1921	24,900,000	41,475 "	5,353 "
3, 1920	21,200,000	32,131 "	2,861 "

Writing again on April 19, our Bergen correspondent states that last week also the catch was favourable, viz., 5,500,000 of cod, and the production of cod-liver oil in the same week was 11,900 hectolitres. The total output of all the Norwegian codfisheries, compared with that of previous years, is as follows :—

	Catch of cod	Steam refined cod liver oil	Livers for crude oil
Apr. 12, 1924	33,900,000	70,339 hectol.	8,623 hectol.
" 13, 1923	32,900,000	64,001 "	11,502 "
" 15, 1922	28,900,000	52,628 "	9,008 "
" 9, 1921	28,500,000	45,935 "	6,137 "
" 10, 1920	24,800,000	37,777 "	3,266 "

Owing to the holidays the market is quite dull and the quotation for non-freezing steam-refined oil is nominal at 100s. per barrel c.i.f. London.

HONEY.—The arrivals comprise 40 cwt. from U.S.A. 475 cwt. from the British West Indies, 1,200 cwt. from Cuba, and 45 cwt. from New Zealand.

IPECACUANHA is steady but quiet, Matto Grosso offering at from 9s. 3d. to 9s. 6d. per lb. as to quality.

MENTHOL.—Up to Wednesday business had barely been resumed, the spot quotation being somewhat nominal at 67s. 6d. per lb. for Kobayashi-Suzuki, sellers of March-May shipment quoting 65s. c.i.f. Japan shippers remain firm, with no signs of cheaper offers. A New York advice dated April 10 reports that the market has been very much excited during the past few days with heavy buying by London and Hamburg; most of these purchases were made in New York, thus taking out of that market a considerable portion of the available supplies.

MERCURY.—The market remains chiefly under the influence of the relative scarcity of sellers for spot delivery, while c.i.f. terms asked by Continental shippers have

been fully maintained at about £13 15s. per bottle. There is a slight indication of second-hand lots being pressed for sale at a little below current values, ranging from about £14 to £14 5s., while the latter figure was paid on Tuesday for small lots. A little export business was done for India. The general demand is rather quiet after the holidays. The arrivals comprise 15,088 lb. and 30,240 lb. from Italy.

OPIUM.—The following report has been received from Constantinople:—

CONSTANTINOPLE, April 15.—“During the period April 1 to date arrivals were as follows:—Druggists', 1,552; ‘softs,’ 111; Malatia, 108. The stock amounted to: druggists', 230; ‘softs,’ 34; Malatia, 10. During the past fortnight, practically no business was done, the last sales consisting of four cases of ‘softs’ at 3,775 piastres per oke. In view of the present rate of exchange of the pound sterling this price is 4 to 5 per cent. higher than that quoted six weeks ago. Several offers for supply to European countries of opium without a definite morphine content have been made. However, since the profit on these transactions does not exceed 2 to 3 per cent., and in view of the fluctuations in the exchange, and also in the price of opium, exporters have declined to make firm offers. If the European consumers would pass definite orders, it would be possible to obtain sufficient supplies, as several small dealers have decided to reduce their prices in order to have their hands free when the new crop comes in. The spring rains continue to be favourable to the sowings. According to advices received from the interior, if the rains continue until the end of this month, the yield of the next crop will be double as much as that of the last. However, we prefer to abstain from any prognostications, as opium has often given rise to great surprises. The market in Smyrna is also quiet. Four cases of druggists' have been sold at 2,900 piastres per oke. The stock amounts to only thirty-two cases of druggists'. Reports from Salonica state that the cold weather has caused damage to the sowings and that the Macedonian crop will not yield more than 300 cases of ‘softs,’ that is to say, as much as last year.”

PEPPER.—Black Singapore is steady but quiet at 5d. per lb. on the spot, and for March-May and April-June shipments 4½d., c.i.f. London, is quoted for f.a.q. Lampung, and Tellicherry has sellers at 5d. and Aleppy at 4½d. per lb. on the spot. White Muntok is quoted at 8½d. To arrive, there are buyers of April-June at 8½d. per lb., c.i.f., and for May-July shipment sales have been made at 8½d. c.i.f. London and buyers.

PLATINUM.—The poorness of the demand has induced further concessions, the quotation for refined now standing at about £25 10s. per oz., while raw metal is quoted £23 10s. to £24 per oz.

SEEDS.—The market remains quiet, with prices unchanged. The following are spot prices: CANARY SEED quiet, with a small business in Mazagan at 28s. 6d. CORIANDER SEED, sound Morocco 32s. 6d. per cwt.; CUMIN SEED, Malta 115s., Morocco 110s.; DILL SEED, 20s. to 21s.; FENNEL SEED, Indian 38s. to 40s.; FENUGREEK SEED, Morocco 22s. 6d., and Spanish 19s.; HEMP SEED, Manchurian 22s.; LINSEED, Morocco 27s.; MUSTARD SEED, English 36s. per cwt.

SELLAC.—The recent weakness in the primary market and the good quantities due to arrive in the near future in London caused prices to tend downward lately and demand has been decidedly dull. Deliveries, however, which were interfered with by the holidays, will probably make a fair showing for the month. The spot price of usual standard TN orange quality is 272s. 6d.; fine second orange to superfine, 300s. to 360s.; A.C. cakey, 280s.; and GAL 270s. For delivery there are sellers of TN for May at 265s., and for August delivery 260s. has been paid.

STARCH PRODUCTS.—Dutch farina is 19s. 6d. per cwt. on the spot, and 18s. 6d. per cwt. f.o.b. is quoted for prompt shipment. American maize starch powder is steady at 18s. 6d. per cwt. on the spot, and Dutch is 21s. Dextrin is 23s. 6d. for superior Dutch and 22s. 6d. for No. 2 on the spot. American canary is 21s., and white 20s. 9d. on the spot. Best rice starch crystals offer at 40s. for English, 33s. 6d. per cwt. for Continental, and 21s. for American on the spot.

TURMERIC.—The “Clan Mackinlay,” from Cochin, has brought 521 bags.

WAX, BEES'. remains very firm, with small stocks of all descriptions. Good Benguela block just landing can be had at about £6 17s. 6d. per cwt.

WAX, VEGETABLE.—Japanese is quite firm at 100s. per cwt. on the spot. To arrive, April-May shipment is quoted at 90s. c.i.f.; June-August at 83s. to 85s. c.i.f., according to shipper. A fair quantity has been re-exported of late.

Essential Oils

ESSENTIAL oils are quiet and prices are practically as last quoted. Star anise is dull and on the easy side, although the forward position is unchanged. There is little interest in the c.i.f. position of Sicilian oils at present, forward prices being generally higher than those ruling on the spot. Java citronella is dearer to come forward.

ANISE (STAR).—“Red Ship” on the spot is quiet and easier at 2s. 8d. to 2s. 9d. per lb. Sellers of March-May shipment quote 2s. 10½d. c.i.f.

BERGAMOT is unchanged, the c.i.f. price for 37 to 38 l.a. being 18s. to 18s. 6d. per lb., while on the spot 17s. 6d. per lb. is quoted.

CASSIA is quiet at 8s. 3d. per lb. for 80 to 85 c.a. and 7s. 6d. c.i.f. to arrive.

CINNAMON.—Ceylon leaf is quoted at 6d. per oz. landed terms for parcels near at hand.

CITRONELLA.—Ceylon is unchanged at 3s. 6d. per lb. on the spot and 3s. 2½d. c.i.f. to arrive. Java on the spot is firm at 4s. 10d. per lb., and dearer at 4s. 6½d. c.i.f. to arrive for July-December shipment.

GERANIUM.—Bourbon is unchanged on the spot with sellers at 32s. 6d. to 33s. per lb. for small lots. The c.i.f. price is cheaper in francs at 245fr. per kilo (=34s. per lb.).

LEMON.—There is very little demand for forward shipment at the present high c.i.f. prices, 3s. 4d. to 3s. 7d. per lb. being about the general figures. On the spot 3s. 3d. is quoted, and less would still buy in some directions.

LEMONGRASS.—Cochin has been in demand with spot now firm at 3s. 10d. per lb. The price quoted for shipment is 3s. 8d. c.i.f.

MINT.—Japanese dementholised Kobayashi-Suzuki is steady on the spot at 18s. 6d. per lb., and 18s. 3d. c.i.f. is quoted to arrive.

ORANGE.—Sicilian sweet is unchanged at 12s. 6d. to 13s. per lb. on the spot and 13s. to 14s. c.i.f. to arrive. West Indian sweet is steady at from 10s. to 11s. per lb.

Pharmaceutical Chemicals, etc.

THE spot position shows no change on the week. Business commenced again on Tuesday, but there was practically nothing doing. Values are on the same level as those given in our last report, and the tone of the market remains steady.

ACETANILIDE continues to be offered on spot close up to 2s. 6d. per lb., but business is slow, and the tone is far from good.

AMIDOPYRIN is seldom inquired for. Dealers quote down to 18s. per lb.

AMMON. BENZOATE is mentioned at about 3s. 9d. per lb., but sales would probably be under this figure.

ASPIRIN seems rather steadier, with dealers offering good brands at from 3s. 5d. to 3s. 7d. per lb. according to quantity.

BARBITONE is of no interest; dealers offer on spot at about 16s. per lb.

BENZOIC ACID (B.P.) is a little freer in supply, but prices for good quality are firmly held from 4s. per lb.

BENZONAPHTHOL has been in occasional demand, with offers at about 6s. per lb.

BETANAPHTHOL is not attracting buyers at present price of about 3s. 6d. per lb. for resublimed.

BROMIDES.—This market seems firmer all round. British makers and Continental offers are certainly better, but there are possibly some comparatively cheap parcels available on spot. Ammonium is again dearer at about 11d. per lb. Potassium B.P. crystals and granular, 8d. to 8½d. per lb. Sodium B.P. crystals and granular, 8½d. to 9d.

CALCIUM LACTATE has been moving rather better of late at the recently reduced price of 1s. 7d. to 1s. 8d. per lb.

CHLORAL HYDRATE is available on spot from dealers at about 3s. 8d. to 3s. 10d. per lb. for duty-paid crystals. A little business has been done.

CITRIC ACID (B.P. CRYSTALS).—The spot position continues to be under British and Continental makers as regards price, but with the gradual clearance of floating stocks the market is tending harder. Quotations are about 1s. 5½d. to 1s. 6d. per lb., less 5 per cent.

COCAINE is unaltered, hydrochloride offering at from 17s. to 17s. 6d. per oz.; pure alkaloid is from about 19s. 6d. to 20s. 6d. per oz., according to quantity.

CREOSOTE (B.P.) is steady but quiet, with holders offering at 2s. 6d. per lb.

CREOSOTE CARBONATE remains dull, with holders quoting about 6s. 6d. per lb.

GALLIC ACID from dealers is available at 3s. per lb.; business is quiet.

GUAIACOL CARBONATE is much steadier, and most spot holders are now asking close up to 13s. per lb.

HEXAMINE is firmer on the Continent, and spot offers are now well up to about 3s. 7d. per lb.

HYDROQUINONE continues to find some business with holders asking 4s. 2d. to 4s. 3d. per lb.

LACTIC ACID keeps steady, with dealers' price for B.P. unchanged at 2s. 9d. per lb.

METHYL SALICYLATE.—Business has been a little better, and prices are fairly steady in the region of 2s. 6d. per lb.

METHYL SULPHONAL is scarce on spot, and prices are steady at 25s. per lb.

MILK SUGAR is steady, the average price for Continental powder of B.P. quality being 77s. 6d. per cwt. Colonial of finest quality commands 85s. per cwt.

PARAFORMALDEHYDE keeps quite steady, and in a little demand. Dealers quote at about 3s. 6d. per lb.

PARALDEHYDE has been in some inquiry at from 1s. 5d. per lb. and upwards, according to quantity.

PHENACETIN.—The few remaining cheap lots on spot have been cleared. Continental offerings are limited, and at higher rates. Spot prices are firm at 6s. 9d. per lb.

PHENAZONE.—The spot market is firm on quotation at about 8s. per lb. Continental offerings are dear.

PHENOLPHTHALEIN on spot is difficult to locate below about 7s. 3d. per lb.

POTASSIUM PERMANGANATE (B.P.).—Dealers are doing a fair business at about 7½d. per lb., in drums.

POTASSIUM SULPHOGUAICOLATE is nominal on a lifeless market as quoted at 6s. per lb.

RESORCIN is steadier at 5s. 9d. per lb.

SACCHARIN (550) continues to be quoted at 126s. to 130s. per lb. duty paid, according to quantity.

SALICYLIC ACID (B.P.) continues to be offered at the recently reduced rate of 1s. 11d. per lb.; the market is steadier

SALOL is maintained at from 4s. to 4s. 3d. per lb., according to quantity.

SODIUM BENZOATE (B.P.).—The price for good quality is firm as mentioned at 3s. to 3s. 3d. per lb.

SODIUM DIETHYLBARBITURATE remains neglected at from 17s. to 18s. per lb.

SODIUM SALICYLATE.—Prices for crystals and powder continue to show an unusual margin. The market seems rather firmer, with a fair amount of inquiry being dealt with. B.P. crystals, from 2s. 9½d. to 2s. 10d. per lb.; powder, from 2s. 6d. per lb.

SULPHONAL remains flat, with dealers offering on spot at about 17s. 6d. per lb.

TARTARIC ACID.—Some cheap spot parcels of B.P. crystals are still on the market available at slightly under the quoted rates of 1s. 1½d. to 1s. 2d. per lb., less 5 per cent.

TEPPIN HYDRATE has been rather dull of late. Dealers' prices continue unchanged at about 1s. 9d. per lb.

VANILLIN (100 per cent.) is fully maintained at last week's better price of about 25s. per lb.

Industrial Chemicals, etc.

London, April 23.

WITH the suspension of business over the holidays, which covers practically the whole period since our last report, there is no change to record in prices.

ACETIC ACID remains slow on spot, and prices are, if anything, rather easier for actual business, although spot

holders' quotations are about the same. 80 per cent. technical, £46 10s. to £47; 80 per cent. pure, about £48 per ton, in barrels; 90 per cent. glacial, about £69 to £70 per ton, in glass demijohns, ex wharf, London.

ACETONE is slow, with quotations close up to £100 per ton for British Government specification, which are rather above the actual selling price.

ARSENIC.—Somewhat more demand has been attracted by the recent fall, and the tone is the turn steadier on the basis of about £58 per ton for Cornish, f.o.r. Cornwall. Parcels delivered London cost £60 to £60 10s. Rather cheap offers of Japanese material continue to be reported at various figures on either side of £52 per ton, c.i.f. for forward shipment.

BLEACHING POWDER is dull at about £10 5s. to £10 10s. per ton for 35 to 37 per cent. chlorine.

COPPER-SULPHATE.—Export trading has shown no special feature, there being still a fair demand coming forward, France being somewhat more inclined to buy at the improved value of the franc. Current f.o.b. quotations range from £25 to £25 5s. per ton for casks, less 5 per cent.

CREAM OF TARTAR.—Prices are unchanged at from 83s. 6d. to 84s. per cwt., less 2½ per cent.

EPSOM SALT of commercial quality is available on spot at about £5, or a shade under.

FORMALDEHYDE is unsteady, and offers vary. Some material on spot in firm hands is quoted at £61 per ton, but others would accept less than this figure for 40 per cent. volume.

GLAUBER'S SALT remains dull, with spot prices close up to £3 17s. 6d. per ton, in bags.

LEAD ACETATE is offered by dealers at about £46 for brown and £47 10s. for white. The market is rather easier, and cheaper prices seem probable.

LITHOPONE continues a steady market. Dealers offer 30 per cent. Continental red seal at about £22 10s. per ton, on spot. Slightly cheaper for shipment.

OXALIC ACID remains slow and unchanged at 5½d. per lb.

POTASH CAUSTIC.—There has been no great movement on spot, with dealers offering 88 to 92 per cent. solid at about £31 per ton, in drums.

POTASSIUM CARBONATE.—The quotations are slightly above the actual selling price for spot. Prices from the Continent are rather firmer; 90 to 92 per cent., about £24; 96 to 98 per cent., about £26 per ton.

POTASSIUM CHLORATE in quantity is offering from 3d. per lb. and upwards.

POTASSIUM FERMANGANATE of commercial quality finds a fair outlet, at about 7½d. per lb., in drums.

POTASSIUM PRUSSIATE shows no further fall. There are offers of British yellow at about 8½d. per lb., in quantities of not less than one ton.

SAL AMMONIAC.—Spot supplies are too plentiful, with the demand slow for the market to be healthy. Continental rates, however, fully support the market. The quoted prices might be discounted for good sales; dog-tooth crystals, about £44 10s.; medium, about £40; fine white crystals, about £26 15s. per ton.

SALTCAKE for home trade is steady as quoted at £4 5s. to £4 10s. per ton, delivered.

SODA ASH (58 per cent. light alkali) is quoted by British makers at £6 15s. per ton, in bags, for home trade only.

SODA CRYSTALS (carbonate).—The home trade price from British makers is unaltered at £5 5s. per ton, in free bags, carriage paid to any station in Great Britain.

SODIUM ACETATE is available at about £24 per ton.

SODIUM BICARBONATE shows no change, with British makers quoting for home trade at £10 10s. per ton, in bags, carriage paid. Dealers' prices are competitive.

SODIUM BICHROMATE, from British makers, for home trade only, is steady at 4½d. per lb., carriage paid.

SODIUM HYPOSULPHITE.—A limited business has been done by dealers offering Continental. Pea crystals in 1-cwt. kegs, about £14 15s. per ton. Commercial quality, £9 17s. 6d. per ton, in casks.

SODIUM PRUSSIATE is in slow demand, with offers of British at about 4½d. per lb., in 1-ton lots.

SODIUM SULPHIDE shows no sign of livening up. Dealers quote 60/62 per cent. solid at £14 10s., and £1 more for broken, in drums.

SULPHUR has been quiet but steady. Sicilian and American crude is quoted £5 15s. per ton, delivered Manchester. Sicilian refined stands at £7 15s. for roll, and £9 12s. 6d. for flowers, ex stock London.

ZINC OXIDE.—The demand has been light, but the tone is well maintained, with prices ranging from about £41 10s. to £51 10s. per ton, according to grade, while B.P. is quoted up to about £55 per ton f.o.r.

COAL TAR PRODUCTS, ETC.—There is no change to record since our last report. Since the re-opening of the market after the holidays, matters have been extremely quiet. **ANILINE OIL** shows no change on the week, with British makers quoting at 7½d. to 8½d. per lb., naked, ex works. **ANILINE SALT** from British makers continues to be quoted at 7½d. to 9d. per lb., naked, ex works. **BETANAPHTHOL** is steady, with the market dull at 1s. 1d. to 1s. 2d. per lb. **TOLUL**.—Pure, 1s. 8d. to 1s. 10d.; 90's, 1s. 4½d. to 1s. 7d. per gallon, in drums; f.o.b. price about 1½d. more per gallon. **XYLOL**.—Pure, 3s 3d.; commercial, 2s. 3d. per gallon; British makers' prices are unchanged; f.o.b. price about 1½d. more per gallon. **CROOSOTE OIL** is still quiet, with the price unchanged at 8½d. ex works, and 9½d. per gallon f.o.b. **CARBOIC ACID** crystals (39° to 40° C. crystals) have been inactive over the holidays. The market price is unchanged at 7½d. to 8½d. per lb., f.o.b. for large quantities. **CRESYLIC ACID** is very steady, although the market is dull: 1s. 11d. to 2s. 1d. per gallon; market firm. **NAPHTHALENE** keeps steady, but the market has been dull since the re-opening: about £16 15s. to £17 per ton. **PYRIDIN** continues active, with inquiry for large quantities. Sellers are asking fully 25s. to 28s. per gallon, with the market firm. **HEXAMETHYLENE** shows no change on the week: quoted at 3s. 9d. per gallon. Pure **METHYL ALCOHOL** remains quiet, with dealers offering ex wharf at about £80 per ton, in drums. **PITCH.**—This market remains very dull with no business of any account being done. Quoted on a nominal basis at about 57s. 6d. per ton, f.o.b. East Coast.

Fixed Oils, etc.

ONE or two slight changes in values are recorded with the movements in buyers' favour. Since the re-opening after the holidays there has been little doing so far. **ACID OILS.**—This market is rather easier, with cheaper prices quoted. Nothing doing in the way of business yet. **Coconut** and **palm kernel**, 39s. 6d.; **groundnut**, 36s. 6d.; **soya**, 36s., all spot. **CASTOR.**—The higher rates recorded prior to the holidays are still quoted on a firm market: pharmaceutical, 72s.; first pressings, 67s.; second pressings, 65s., all spot. **COCONUT.**—This market opens dull, with quotations unchanged: deodorised, spot, 50s.; Ceylon, 44s. c.i.f.; Cochin, 50s. c.i.f. **COTTON.**—All qualities are unchanged in price, with the market steady, but very quiet: deodorised, 52s.; common edible, 50s.; soapmaking, 47s.; crude, 43s. 6d., all spot. **GROUNDNUT.**—The market re-opened quiet with values unchanged: deodorised, spot, 56s.; crude Oriental, 50s. c.i.f. **LINSEED** (raw, naked).—Quotations are unchanged over the holidays. To-day there was very little movement in the market, but the tone was fairly steady: spot, 37s. 6d.; April, 36s. 4½d.; May-August, 36s. 4½d.; September-December, 36s. Hull, on spot, 36s. 3d.; April, 36s. 1½d.; May-August, 36s. 1½d.; September-December, 36s. **PALM KERNEL.**—A steady but dull market, with values level over the holidays; deodorised, 47s.; crude, 42s., all spot. **PALM.**—This market is fairly steady, but there has been little doing since the holidays: Lagos, 37s. 3d.; softs, 37s.; mediums, 37s.; hards, 37s.; bleached, 40s. 6d., all spot. **RAPE.**—Market dull since re-opening; quoted values unchanged: refined, 53s. 6d.; crude, 50s. 6d., all spot. **SOYA.**—Market re-opens very quiet; prices unchanged: deodorised, 50s.; crude, 44s. **TURPENTINE.**—Lower prices are quoted here, with the market very dull since the re-opening: on spot, 74s.; May-June, 74s.; July-December, 71s. 9d. Total London stocks for week ending April 19, 14,450 barrels of American and 80 barrels of French spirit. **WOOD.**—Hankow in barrels on spot is dull at 90s.

LUBRICOATING, MINERAL AND BURNING OILS.—There has been practically nothing doing since the re-opening to-day. Prices throughout are quoted unchanged. **BENZOL.**—British makers' prices show no change over the holidays. Crude 65's, 10½d. to 1s.; standard motor, 1s. 4½d. to 1s. 6d.; pure, 1s. 8½d. to 1s. 10d. per gallon, ex works, in tank wagons, F.o.b. price in free drums would be about sixpence more. **FUEL OIL.**—There is no change to record here; market quiet but steady: 890 gravity, about £5 2s. 6d.; 950 gravity, £4 2s. 6d. per ton, ex tank. **PARAFFIN WAX** and **SCALE.**—The condition of this market is very firm, with high prices fully maintained. Wax quoted from 3½d. to 5½d. per lb., according to melting point, in bags. Scale is offering, c.i.f. U.K. port, at 33s. per cwt. **SOLVENT NAPHTHAS** continue to be mentioned at their recently advanced prices; market quieter: 90 to 160, fully 1s. 3d.; heavy, 90 to 190, about 1s. 2½d. to 1s. 3d. per gallon. **PARAFFIN OILS.**—This market stands firm: American standard white, 1s. 1d.; water white, 1s. 2d. per gallon, barrels free; Russian prime white

kerosene, 6½d. to 7d., ex tank; 7½d. buyers' barrels filled free; 10d. per gallon, barrels free, ex wharf, London. **PETROLEUM JELLIES.**—There is no change to record here; market firm: snow white, £67 to £69; amber and yellow, £25 to £28; red vet, £22; dark stiff green, about £21 per ton, ex wharf, London, barrels free. **WHITE OILS.**—The tone keeps firm, although the market is rather quiet: Special No. 1, £45; No. 1, £39; No. 3 half-white, £31 per ton, drums free, ex wharf, London. **LUBRICATING OILS.**—This market is unchanged over the holidays. Spot and shipment prices are level. Market steady to firm. Pales, £14 to £27; reds, £15 to £28; dark cylinders, £17 10s. to £37; filtered cylinders, £23 18s. to £43 per ton, less 2½ per cent., ex wharf, London. **SOLUBLE OIL**, £21 to £25 per ton, net. No. 1 **RUSSIAN OIL** is firm as quoted at about £19 15s. per ton, less 2½ per cent., ex wharf, London.

ANIMAL AND FISH OILS, TALLOWS, ETC.—Since our last report this market has been closed most of the time. At the re-opening to-day matters were very quiet. Some items, both spot and for shipment, such as tallow, are perhaps a shade easier. **BONE GREASE.**—Sellers' quotations are rather easier again at the re-opening to-day: pale water, 40s.; brown water, 39s.; benzine, 38s., all spot. The market is very quiet. **NEAT'S FOOT OIL** shows a little advance on the latest shipment offers at 5s. 4½d. per gallon, c.i.f. **LARD OILS.**—These items have been idle; quotations are unchanged: American E.W.S., 1 per cent., 73s. 6d. English, about 3 per cent., 64s.; about 5 per cent., about 61s. per cwt., ex wharf, London. **FISH OILS.**—The market remains steady, but so far there has been little interest shown since the holidays: coast cod, about 35s. 3d.; brown whale, 34s.; dark whale, 32s., all spot; Japanese, in cases, 32s. 6d. c.i.f. **TALLOWS (Australian).**—During the past week this market has been closed practically all the time. To-day, at the re-opening, there was little movement. No auction this week and market dull: fine mutton, about 49s.; sweet beef, 46s. 6d.; good mixed, 45s.; inferiors, 41s. 9d., all spot. Shipments from Australia during March, 3,600 tons, against 2,900 tons in February and 5,400 tons a year ago. The decrease for 1924 compared with 1923 amounts to 5,700 tons. **SOUTH AMERICAN TALLOWS.**—Shipment offers are easier with little interest shown: first beefs, 42s. 6d.; second beefs, 39s. 6d. c.i.f. **OLEO OIL** for shipment is unchanged at 66s. c.i.f. on a dull market. Oleo stearin is also level on the week on a dull market. South American No. 1, 50s.; No. 2, 49s. c.i.f. **Premier Jus.**—All quotations are unchanged over the holidays; market very dull: South American extra beef, 49s.; Australian mutton, 46s.; South American mutton, 46s. per cwt., c.i.f.

German Reparation (Recovery) Act, 1921

By arrangement between the British Government and the German Government the recent agreement, by which the amount of the levy under the German Reparation (Recovery) Act, 1921, was reduced from 26 per cent. to 5 per cent. of the value of the goods, has been extended for two months, viz., until June 15 next. It will be remembered that, under the agreement referred to, the German Government agreed to arrange for the compensation of the German exporters at a later date in respect of goods imported on or after February 26 last, and to provide by decree that if in any case any part of the sums levied under the Act were charged to the British importer the German exporter would forfeit his claim to reimbursement, and would, in addition, be subject to a penalty. A decree to this effect is now in operation in Germany.

Seychelles Vanilla and Essential Oils

In the Colonial Report on Seychelles for 1921, which was recently published, it is stated with regard to the low price, together with the diseases to which it is subject in this Colony, has caused vanilla, which at one time was the most important export from Seychelles, to become the least important. The crop for the year of 1,358 kilos was the lowest on record, but there are signs that the interest in this culture is reviving. The distillation of cinnamon and clove leaves continues to be pursued energetically. There are now about 50 stills in operation and over 2,000 persons, mostly women and children, are employed. The local price of cinnamon oil was low until September, when it rose to Rs. 10 per kilo. That of clove leaf oil averaged Rs. 9 per kilo throughout the year. The export during the year amounted to 38,024 kilos, compared with 42,659 kilos the previous year. Amber seeds (*Hibiscus abelmoschus*) are also grown by some planters, but are not distilled locally owing to the difficulty of preserving the oil. The export during the year amounted to 2,012 kilos. Trade during 1921 cannot be said to have been good the price of the two principal commodities (copra and cinnamon leaf oil) were both low.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

Alchemy

SIR.—"Xrayser II" is hardly fair (*C. & D.*, April 5, p. 489) in evading the issue with regard to whether Dr. Dee, the alchemist, was an impostor or not, by saying that the question is unimportant. The accuracy of "Xrayser II's" statement that he was an impostor has been challenged. If Dee were now living "Xrayser II" would not dare to make such an assertion. Ample evidence of Dee's sincerity can be found not only in Redgrove's "Alchemy, Ancient and Modern," and the references he gives, but especially in "The Dictionary of National Biography." It is very important for us to understand the evolution of chemical theory and the mental processes which have led men to put forward various hypotheses (both tenable and otherwise) to account for observed chemical phenomena. It is these processes—as concerns the earliest chemical hypotheses—which are implied by the expression "psychological origin of alchemical theories," and which Redgrove for the first time makes plain. No useful purpose is served by confusing this important contribution to scientific knowledge with the rather fantastic view of Hitchcock that alchemy is merely a veiled mysticism, or the equally fantastic theory of Paracelsus—who, in spite of his undoubted genius and the great beneficial revolution he accomplished in chemistry and pharmacy, held many fantastic views—concerning the possibility of the psychic creation of gold.

Yours faithfully,

GERALD DRUCE, M.Sc. (Lond.), R. Nat. Dr. (Prague).
Balham, S.W.

Therapeutic Substances Bill

SIR.—The new Bill for regulating the manufacture and sale of therapeutic substances adds yet another stage to the barricade which is slowly but surely encircling the pharmacist, and rendering it very difficult for him to carry on his legitimate business at all. The infliction of a penalty for the sale of a serum a day or two over date, combined with the fact that manufacturers do not exchange unsold vials, completely prevents the chemist in an ordinary locality from carrying these preparations in stock; and it is certain that cases will arise in which there is an urgent call for a serum or vaccine required for immediate use, unobtainable locally, and the patient will suffer. An example of the paralysing effect of these regulations has been seen already under the Dangerous Drugs Acts. As "Xrayser II" says, there is every appearance that the Government has been against us, whatever party may have been in power.

Truly yours,
FENCED IN (22/4).

Insurance Prescribing

SIR.—A few days ago I had an experience similar to "A Liverpool Chemist." A doctor ordered "Sol. adrenalin chlor. 3j. aq. ad 3vij. A few drops in the eye daily." I, too, phoned him, and found that was what he required, so I, of course, dispensed it. I cannot say that I felt any great shame in so doing, nor do I see why one should. I certainly thought it extravagant prescribing. As to 12 in. by 12 in. and other broken sizes of plasters, I have been through this, too. A courteous explanation to the doctor that the plaster is supplied in rolls 16 in. wide, and a suggestion that lengths or widths should be ordered either 8 in. or 16 in. to save waste was willingly accepted, and has ever since been acted upon. I find that many chemists are very hesitant about approaching medical men about little things like this occurring from time to time, which is a great pity, as more often than not just a word

only is all that is required. I may further suggest that it is usually preferable to see the doctor personally rather than to telephone.—Yours faithfully,

WALTER R. BRACKENBURY,
Chairman, Middlesbrough Pharmaceutical Committee.

Insurance Dispensing

SIR.—I am afraid that "Naratev" (*C. & D.*, April 19, p. 582) would be inviting trouble if he dispensed an equivalent number of square inches of plaster instead of the size actually ordered. Suppose he had a strip of plaster 4 in. wide and gave the customer 4 in. by 36 in. instead of 12 in. by 12 in.; he would of course be supplying 144 sq. in., but both the customer and the doctor would soon grumble. "Naratev" can have no idea of the trouble which some doctors give the pharmacist, and one cannot help thinking that it is done purposely in some cases. For example, an insured person was ordered some tablets, the doctor directing him to crush one to a powder and take it; the tablets not being in stock, powders were dispensed to save delay and the customer informed of the reason; the next day they were returned to the pharmacy, and the doctor said it was not what he had ordered. I have long ago arrived at the same conclusion as "Naratev"—that pharmacists as a body are hopeless; they will grumble and growl individually, but never attempt to contrive to get genuine wrongs righted.—Yours, etc.,

CONTRACTOR (22/4).

The Patient's Point of View

SIR.—I seem fated to gather new experiences. Thus, early in February, I—albeit a reasonably careful man—caught a chill, since when I have spent the major part of my time in bed with a combination of lung congestion, bronchitis, and pneumonia. I am far from belittling this, but as a fact never felt quite so bad as all this denotes; and I imagine that when one is at the biblical limit—so to speak—one is well able to judge of the amount of danger that may be imminent! What I would like to know is the general experience, so far as can be ascertained, of the vaccine treatment. I have, presumably, a good constitution, but naturally do not throw this kind of thing off so easily as a younger man might do. My doctor therefore proposed to adopt the above with the idea of hastening the desired result. I furnished the requisite consignment to our bacteriological laboratory, and in due course we received a box of ampoules containing the organisms pneumococci and streptococci: Six blue ampoules containing 1,600 million organisms in equal parts, and eleven white containing 8,000 million, etc. Dose of the blue suggested, 4, 8, 12 and 16 minims, and of the white, 3, 6, 9, 12 and 15 minims, at weekly intervals. The treatment is therefore a matter of months, which is not pleasant to contemplate; though of course, if the result is to be a success, leading to a further period of "usefulness," one would be the more patient. So far I find it difficult to assign any particular improvement to this source. I have injected cocaine for dental purposes on many occasions, but this kind of subcutaneous injection is new to me, especially on my own person. I have always understood this to be rather a painful business, but have been agreeably disappointed. Selecting a spot on the lower side of the right forearm, the doctor gave this a preliminary rub with a wash of methylated spirit (?) and hyd. bichlor.). This dried, there came an application of tinct. iodi. Finally, taking up a fold of skin between the finger and thumb, the needle was thrust smartly in for a distance of about three-quarters of an inch (so it seemed); the point of the needle would then be an eighth of an inch below the epidermis. The injection was then made with a slight withdrawal of the needle (to make room, I suppose, for the fluid), and the plunger pushed in. This kind of treatment is nearly painless—i.e., with the small doses. Pinching the skin in this way makes the operation trifling. It is perhaps another thing when it comes to 15 or 18 minims.—Yours faithfully,

VETERAN (23/4).

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

Name for Soft Paraffin

The idea that so-called petroleum jellies should have a common household name is a good one; and with the object in mind I beg to suggest "petrine," to be Latinised petrinum, which will preserve etymologically the rock origin of these products.—J. S. (15/4).

"Methylated Iodine"

In view of the proposal to add pyridine to methylated spirit before retailing, a summary of a letter of Dr. Porter's ("B.M.J.", March 8) may be of interest. Dr. Porter advocates the use of petrol as a cleaning-up agent prior to operation, and then painting with "methylated iodine." Methylated spirit in India is made by adding caoutchoucine $\frac{1}{2}$ oz. and pyridine $\frac{1}{2}$ oz. to every 100 gallons of rectified spirit. Most consulting surgeons who use tincture of iodine will not work with that made from industrial methylated spirit; consequently, for theatre work in hospitals, the rectified tincture is largely used.—G. W. G. (23/4).

Legal Queries

W. C. L., Ltd. (15/4).—Barium carbonate is not at present a scheduled poison, but there is reason to believe that it will soon be added to the Poison Schedule. In that case it could not be sold by persons who are not registered chemists.

P. & M. (17/4).—The prescription for suppositories which you send is within the Dangerous Drugs Act. The exemption by Regulation of supp. plumbi co. which is of similar composition does not help, as the Home Office take an untechnical view of the matter.

Hiver (19/4) has an employee over seventy years of age. Is it still necessary to stamp his Health and Unemployment Insurance cards? [Health Insurance contributions cease to be payable when an insured person reaches the age of seventy; but Unemployment contributions are payable after that age unless the insured person is in receipt of an Old Age Pension.]

Registered (8/4).—The practice of dentistry by a body corporate is regulated by Section 5 of the Dentists Act, 1921. A dental company must not carry on any other business than dentistry, or some business ancillary to the business of dentistry. A majority of the directors and all the operating staff must be registered dentists. There are exceptions in the case of dental companies established before July 28, 1921. A section of the Dentists Register is devoted to dental companies, and it is only those named in the Register that can carry on the business of dentistry.

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

Secundo (7/4).—(1) FERTILISERS.—Some recipes are given in "Pharmaceutical Formulas," p. 421, and in the *C. & D. Diary*, 1911, p. 221, there is an article on fertilisers, with many formulas. (2) WATERGLASS FOR EGG-PRESERVING is thinned to a sp. gr. 1.3 or 1.4, and of this a pound is mixed with water to make a gallon of liquid. (3) Bentley and Trimen's "Medicinal Plants," 4 vols., is not much in request now, but probably an advertisement in the Coloured Supplement would bring you offers.

H. & P. (15/4).—BORAX AND HONEY.—This is official in the British Pharmacopoeia as mel boracis, but as the article is a liquid the public prefer a mixture of borax and ordinary honey (1 in 8) on the lines of the mel boracis of the B.P. 1867, which was, however, made with the liquid clarified honey.

Iron (1/4).—Dilute solution of oxalic acid would probably be the most suitable liquid for removing iron stains from bone soiled with an iron mixture.

J. A. M. (9/4).—BUSINESS INVESTMENT.—A net profit—that is, the dividend from investment on any business, if it is doing well and expenses of carrying on normal—should vary from 7½ to 10 per cent. A turnover of £2,400 should provide a salary for the owner of £350 in addition to his incidental costs in carrying on the business, and there should be a further dividend of net profit. To give the minimum turnover which would yield £350 is exceedingly difficult, and in any case it would only be hypothetical and have no particular value. If the gross profits on the business are 35 per cent. it should yield a satisfactory margin to pay yourself a salary out of it and give you a small dividend on your investment of labour and capital.

S. P. L. (10/4).—A good black varnish is the most suitable for coating the inside of zinc developing tanks. The surface of the zinc should be clean and quite dry before applying the varnish. The varnish, which cannot be made economically on a small scale, is composed of bitumen and pitch dissolved in mineral naphtha and turpentine.

W. H. G. (9/4).—COLOURING CLAY PIPES.—It is, we believe, a preparation of fat or wax, with which clay pipes are coated to promote colouring when the pipes are smoked. You will need to experiment to obtain the working details. Unglazed pipes are used, and if warm would absorb the fat readily. Probably also a solution of beeswax in chloroform would be useful.

A. M. W. (7/4).—MARBLE STAINED with smoke is often difficult to restore. The cautious application of hydrochloric acid diluted with two parts of water may be tried. This dissolves the surface of the marble and removes the polish, so that the application needs to be carefully watched. Mixed with sand and applied by rubbing, the action is quicker.

T. H. G. (7/4).—HAIR RESTORER.—The variety of hair restorer containing sodium thiosulphate is made as follows:—

Lead acetate $\frac{5}{4}$ grains
Distilled water sufficient to dissolve

Pour into the following mixture :

Sodium thiosulphato	...	...	...	11½ grains
Glycerin	...	...	...	50 minims
Alcohol (90 per cent.)	...	...	...	100 minims
Distilled water	...	...	...	800 minims

Keep in amber bottles.

F. B. M. (Holland) (4/4).—MEDICATED FOOT-BATH SALTS.—The kind sold in England consist of :

Borax	...	...	...	...	...	1 part
Sodium bicarbonate	...	...	...	...	...	3 parts
Sodium carbonate	...	...	...	...	...	5 parts

The salts used need not be of great purity. A small proportion of an essential oil such as eucalyptus oil is added as a perfume.

E. M. D. (9/4).—(2) PIL. APERIENS. "Royal Northern Hospital."—The formula for this is :—

Aloes Barb.	...	...	...	...	...	gr. iss.
Pulv. jalapæ.	...	...	...	...	...	gr. iss.
Pulv. coloc.	...	...	...	...	...	gr. ss.
Pulv. cambogiae	...	...	...	...	...	gr. $\frac{1}{4}$
Pulv. zingib.	...	...	...	...	...	gr. $\frac{1}{4}$
Sapo. dur.	...	...	...	...	...	gr. $\frac{1}{2}$
Ol. caryoph.	...	...	...	...	...	m. $\frac{1}{4}$

Ft. pil.

E. H. B. (22/3).—SPIRIT SHAMPOOS such as those to which you refer are made with industrial spirit, as otherwise the cost would be too high. There is a suitable formula for a dry shampoo in the *C. & D.*, April 28, 1923, p. 583, where is also given the method of obtaining permits to use industrial spirit.

J. W. D. (15/4).—The chief modern work dealing with the coconut is E. B. Copeland's "The Coconut," published by Macmillan & Co., Ltd., at 20s.

H. & Co. (25/3).—(1) GLYCERIN AND HONEY :—
 "Brilliant" gelatin ... 3j.
 Soak for twelve hours in
 Triple orange-flower water ... 3xxiv.
 Dissolve by the aid of heat, and add
 Glycerin ... 3xiss.
 Honey (clarified) ... 3ss.
 Glycerin of borax ... 3xij.

Pour into bottles.

(2) SULPHUR CREAM :—

Quince seeds	...	...	5iss.
Boric acid	...	...	3ss.
Salicylic acid	...	...	2j.
Sublimed sulphur	...	...	3ss.
Glycerin	...	...	3iss.
Eau de Cologne	...	...	3ij.
Water	...	...	3vj.

Make a mucilage with the quince seeds before adding the other ingredients.

A formula for coconut oil shampoo powders was given in the *C. & D.*, January 7, 1922, p. 12.

L. A. J. (4/4).—A brazing method is used for repairing defects in the inner surface of motor cylinders. It is an engineer's job, which requires a certain amount of equipment and a good deal of experience. We could obtain further particulars if you wish.

S. T. (4/4).—BOOKS ON WAXES.—The larger works published on the production of waxes and chemicals are:—Lewkowitsch's "Chemical Technology and Analysis of Oils, Fats and Waxes" (Macmillan, 3 vols., £5 8s.); Thorpe's "Dictionary of Applied Chemistry" (Longmans, 5 vols., at £2 10s. a vol.). A smaller work is "The Condensed Chemical Dictionary," an American work published at 30s., but we are doubtful whether any of these works is just what you require.

B. H. (13/4).—ADMINISTRATION OF GARLIC.—We cannot find any reference to the subcutaneous use of garlic in whooping cough, but if you are fairly certain that it has been so employed, we will have further research made in the medical journals. Inhalation would seem a better form for whooping cough. Minchin (*C. & D.*, October 8, 1921) recommended the following:—

Fresh garlic juice (unfiltered) ...	56 parts
Alcohol (90 per cent.) ...	7 parts
Oil of eucalyptus (citriodora) ...	1 part

This is employed—a few drops on the wool of a respirator—for at least an hour morning and night.

J. S. C. (25/3).—We have no publication dealing with the question of what constitutes an apothecary. In *The Chemist and Druggist Diary*, 1916, there is a short account of the Apothecaries Act as it affects chemists, which may possibly suit your purpose. This volume is out of print, but could doubtless be obtained by advertising for it in the Coloured Supplement.

T. B. (15/4).—INSECT PESTS.—A plague of earwigs and other insects in a bungalow is best treated by applying paraffin or a solution of naphthalene in benzene to the cracks by which the insects enter the building. As the smell of these applications is somewhat objectionable, it is possible that sodium fluoride freely sprinkled in the haunts of the insects would be better.

T. H. (15/4).—INHALANT.—The following is the recipe from the *C. & D. Diary*, 1912, for which you inquire:—

Menthol	...	...	3iv.
Cresotin	...	...	3j.
Ol. pini pum.	...	...	3l.
Ol. eucalypti	...	...	3j.
Ol. gaultheriae	...	...	3iv.
Ol. cajuput	...	...	3iv.

W. W. T. (31/3).—TICKET INKS are made with a shellac basis. This may be either a solution in spirit (shellac 1 lb., spirit 1½ gallon) or a borax solution (shellac 2 oz., borax 2 oz., water 20 oz., boil until dissolved). To this basis aniline spirit black is added, and sometimes, in addition, drop black. The ink made with spirit solution stands the wet better.

M. V. T. (31/3).—Synthetic menthol is quite suitable for use in place of natural menthol in non-official preparations. Howards & Sons, Ltd., are the makers of synthetic menthol.

J. H. C. (15/4).—LABELLING PASTE.—In practice it is found that ordinary flour paste is satisfactory and economical for use in labelling bottles. Gloy is stated to consist of farina mixed with a solution of magnesium chloride. The new adhesives which were devised by the Adhesives Research Committee during the war are worth trying. The following is one of the formulas devised by the Committee:—

Protein	...	...	78	grams
Sodium carbonate	...	...	4.5	grams
Sodium fluoride	...	...	4.0	grams
Slaked lime	...	...	12.5	grams
Sodium arsenate	...	...	1.0	gram
Water	...	...	250	c.c.

Casein may be used as the protein, although the experiments were conducted with vegetable protein.

Optics (Durban) (25/3).—ENAMEL FOR BINOCULAR GLASSES.—The original enamel is "stoved" after application, so that the enamel used for covering worn places cannot be so lasting as the first enamel. It is found that touching up is carried out fairly satisfactorily with a dull straw-hat polish, a formula for which was printed in the *C. & D.*, September 15, 1923, p. 400. A black enamel which is also used is made by grinding drop ivory black with quick-drying Manilla varnish, to which powdered boric acid and naphthalene have been added to give the matt effect. This is thinned with Manilla varnish if too thick.

C. M. F. (16/4).—WHITE PITCH used as an application for boils is either emp. picis or Burgundy pitch. In either case it is softened by heat before applying it.

Whelk (14/4).—The rheumatism tablets which you send consist of atophan. This chemical is also known as phenylcinchoninic acid or agotan (Howard & Sons, Ltd.) and phenoquin (Southall Bros. & Barclay, Ltd.), and is administered in doses of 30 to 45 grains daily for three or four days.

E. C. T. (4/4).—BOOKS ON THE COW.—The following will, we think, suit your purpose: Barton's "Everyday Ailments and Accidents of Cattle" (Houlston, 1897) and J. B. & A. Gresswell's "Bovine Prescriber."

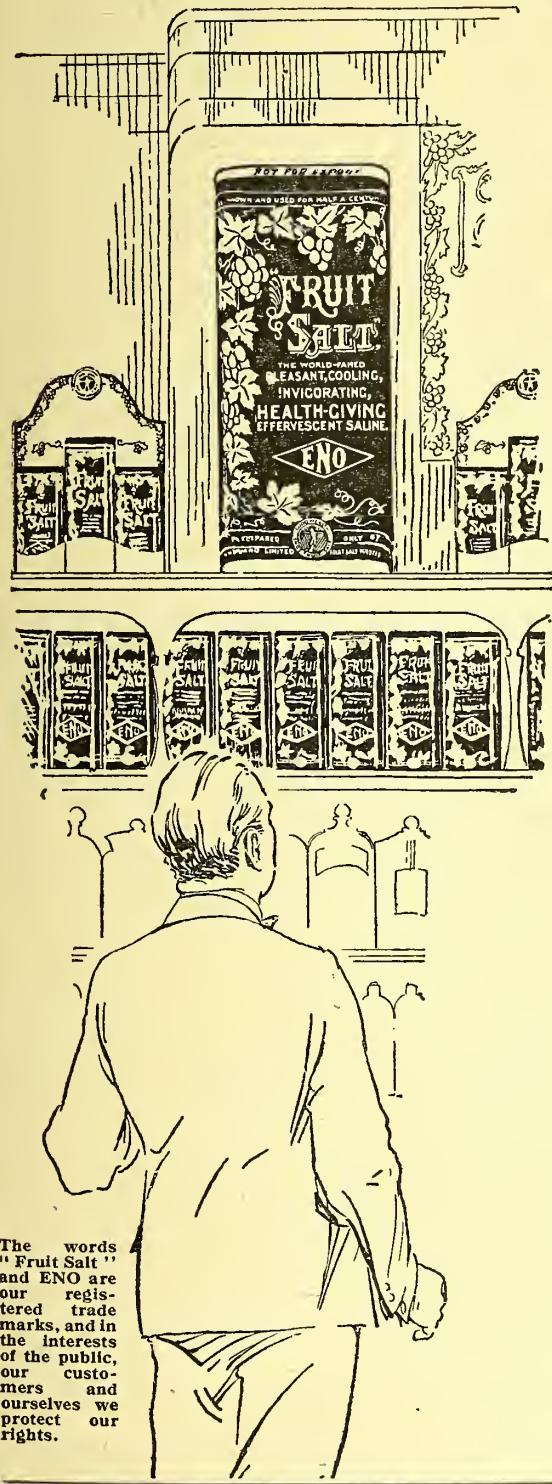
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Reprinted from
 "The Chemist and Druggist," April 15, 1874

Jaborandi—New Medicine

A new medicine—with marvellous virtues, according to its sponsors—has been introduced and experimented with at the Hospital Beaujon, Paris. An account of the action and characters of the medicine appears in the *Répertoire de Pharmacie* of March 25, from which we condense the following particulars. Dr. S. Continho, of Pernambuco, who claims to have discovered the properties of the plant, induced Professor Gubler to make a trial of it, and the account given by that eminent physician corresponds exactly with the claims put forth by Dr. Continho. The leaves and little twigs of the plant are broken up, and from four to six grammes infused in a cupful of warm water. The infusion may be taken warm or cold, and in about ten minutes after administration the patient breaks out into a violent perspiration, which continues for four or five hours, and which is so thorough as to necessitate several changes of linen. At the same time a most abundant flow of saliva is promoted, so abundant, says M. Gubler, that speech is rendered almost impossible. He asserts that he has known patients eject more than a litre in less than two hours. Occasionally, the medicine has induced diarrhoea. Its action is more rapid and more thorough if taken warm, and if the patient is well covered up in bed, but its effects are none the less certain under quite contrary conditions. MM. Continho and Gubler justly assume that there is a great future for a drug of such capabilities as this *jaborandi* seems to possess.

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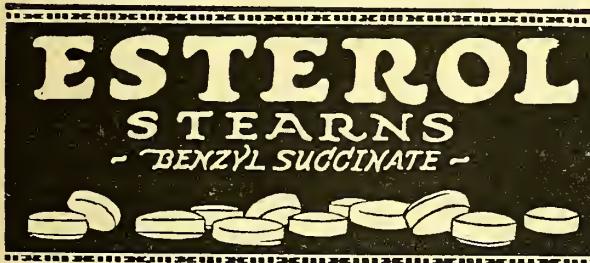
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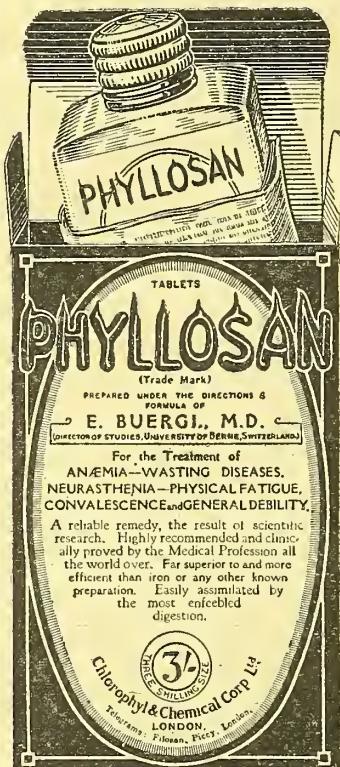
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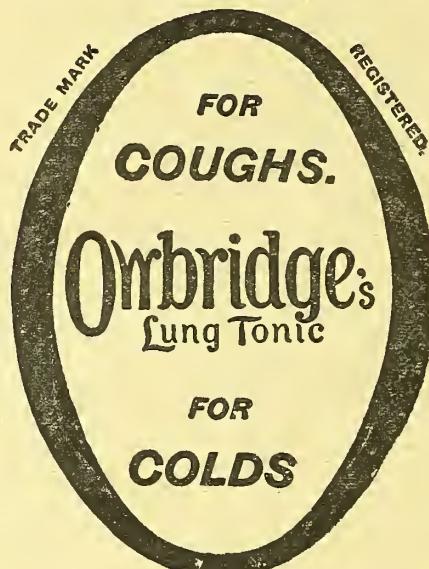
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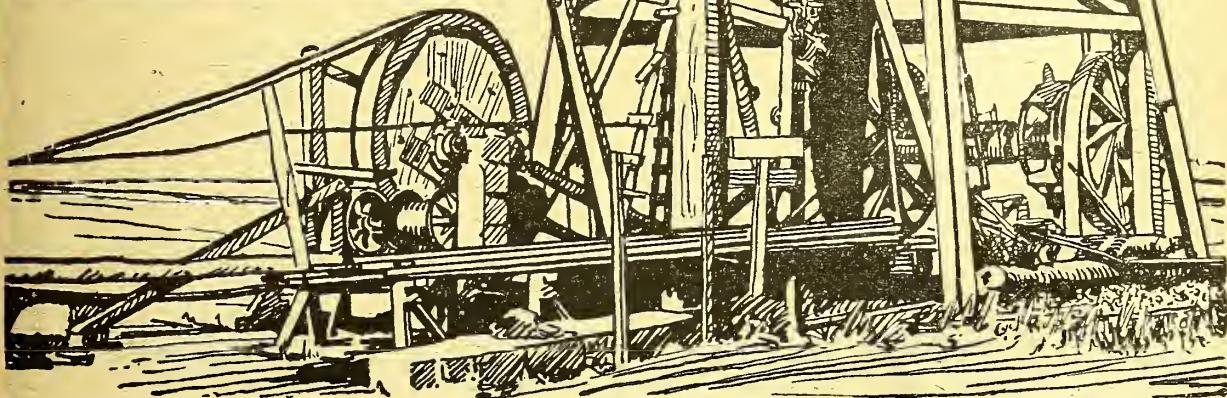
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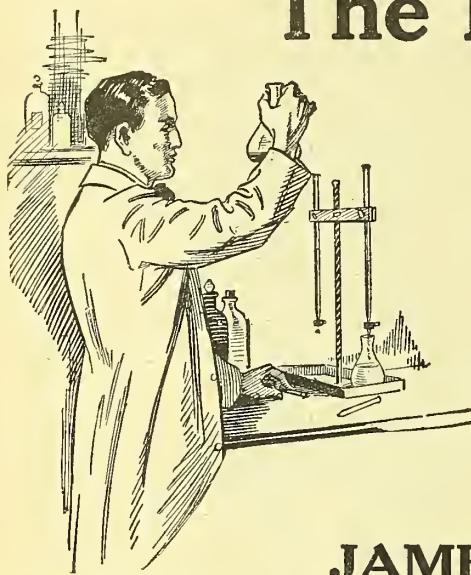
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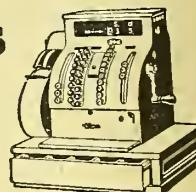
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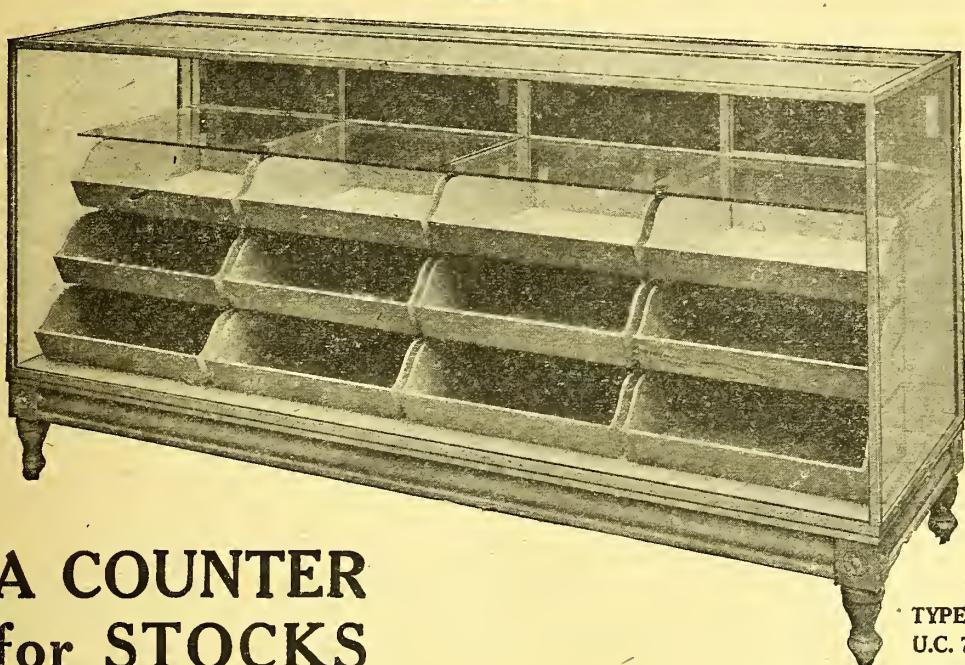
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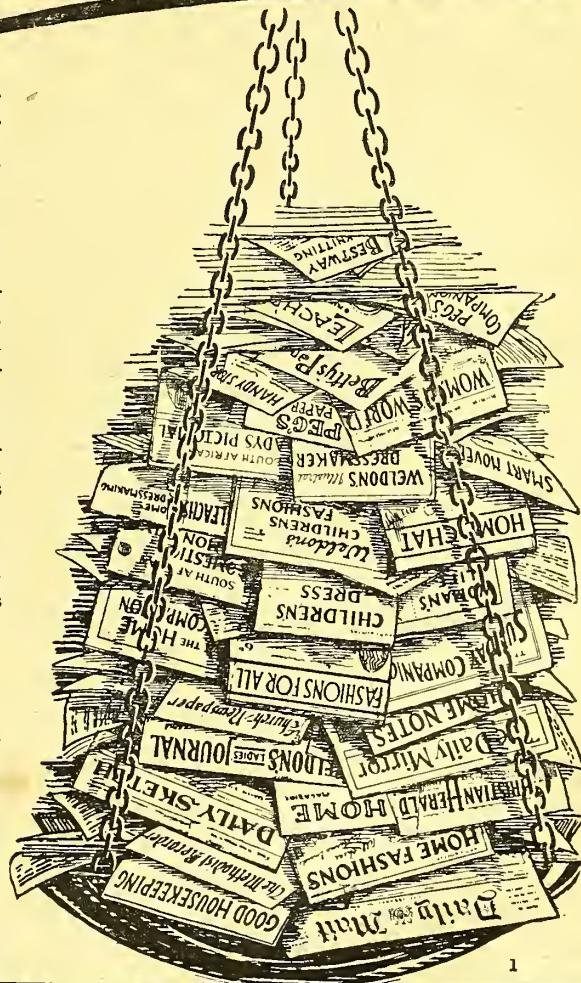
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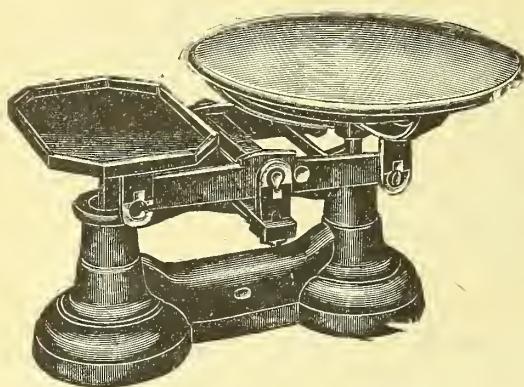
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THE CHEMIST AND DRUGGIST



SUPPLEMENT

42 CANNON ST.
LONDON E.C.4

APRIL 26, 1924

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ASSISTANT, unqualified, wanted for good-class seaside business; well up in Photography preferred. Write full particulars as to experience, wages required (outdoors), P.C.B. 62/ Office of this Paper.

ASSISTANT (unqualified), Birmingham, take charge Surgi Appliance Department; used to Fitting. Reply, state age, experience, salary required, 188/32, Office of this Paper.

ASSISTANT, unqualified, or young qualified; competent Salesman and good Salesman; thorough knowledge Kod Photography essential; permanency. Full particulars in first letter, please. Also Unqualified Man for season ending September 20; good Salesman; thorough knowledge Kodak Photography essential; used to film developing. Martin, Chemist, Clacton-on-Sea.

ASSISTANT wanted (gentleman), principally for Dispensing. Must be fully experienced and used to high-class busine about 30. Please give full particulars in first letter, apply personally, to Alfred Allchin & Co., 9 Royal Parade, Golders Green, N.W.11.

ASSISTANT wanted, junior or lady; good Dispensing experience essential; knowledge of Photography an advantage. Please give particulars of experience and state wages required, etc. Amon, 436 High Road, Streatham, S.W.16.

ASSISTANT wanted (male), of good appearance, for high-class Retail and Dispensing business; Photography. State salary (outdoors) and enclose photograph, to H. R. Browne, 1 Cornfield Road, Eastbourne.

ASSISTANT, about 24, unqualified, for Dispensing and Counter; first-class Dispensing experience essential; London, W. 192/25, Office of this Paper.

COMPETENT Assistant, about 26, wanted for a good-class business in 2 weeks; must be a good Counterman and knowledge of Photography. State full particulars as to age, height, salary required and when disengaged, to W. F. Cole, 41 London Road N., Lowestoft.

COMPETENT unqualified Assistant; good Counter and Dispensing experience essential.—Apply, with full particulars, and photo if possible, to Hickman & Metcalf, Chemists, Newbury, Berks.

DISPENSER wanted, with experience in Developing and Printing; assist in X-ray work; card index system used; outdoor; working-class district. Particulars of age, salary expected, etc., to Dr. Gregson, Wilpshire, Lancs. Gentleman preferred, but not essential.

EXPERIENCED, qualified man, about 30, accustomed to good-class Retail, Dispensing and Photographic trade wanted for progressive Senior position. Please give full particulars of experience, references, and usual details, and state salary required and when disengaged. Matthews, Chemist, Clifton, Bristol.

IMMEDIATELY.—Young qualified Assistant; good worker, reliable Dispenser; able to take and finish well any Photographic work. State salary, photo (if possible), references. Sweetman, Chemist, Ludlow.

JUNIOR for good-class Retail and Dispensing business. Full particulars, including age and salary required, in first letter to J. S. Breese, Pharmaceutical Chemist, Rusholme, Manchester.

JUNIOR Assistant, unqualified, male, young, for good-class all-round business. Full particulars, experience, salary, etc. (photo if possible), H. C. Neve, 10 Victoria Parade, Norbury, S.W.16.

JUNIOR Assistant required; smart and energetic. State experience, age, salary required, etc. Arnold Roberts & Co., 171 High Street, Acton, W.3.

JUNIOR Assistant required as soon as possible; must have practical knowledge of Photographic Developing and Printing; indoors or out. State full particulars of experience and salary required, also when disengaged. Oldham, Rexall Pharmacy, Eton, Windsor.

LEADY Dispenser required, Hall Certificate, for S.W. district; good experience essential. Apply, with full details, to 3/392, Office of this Paper.

LOCUM required to manage branch at Lynton from middle of May to the end of September; experience in Photography essential; smart Counterman and good Dispenser. Apply, with references, stating age and salary (outdoor) required, to F. W. Broom, Chemist, Lynmouth, N. Devon.

LOCUM wanted, June 14 to 28 inclusive. Full particulars to Willis, 66 Fore Street, Brixham, Devon.

MANAGER, qualified, for branch shop, with knowledge of Photography and Window-dressing. If writing state age, salary required, and usual particulars in first letter. F. G. Wells, 80 Bridge Road, Battersea, S.W.11. Letters unanswered for seven days respectfully declined.

PHOTOGRAPHY.—Junior Assistant required in first-class provincial city; must have a thorough practical knowledge of Developing and Printing Amateurs' work; good Salesmanship essential; first-class references required. Apply, with particulars of experience, age, salary required, etc. and when disengaged, to Oxford Drug Co., Ltd., Dispensing Chemists and Photographic Dealers, Oxford.

QUALIFIED man, young and energetic, required to manage a branch shop; must be absolutely trustworthy. Applications, with full particulars of experience, age, salary required, and names for two references, to The Doncaster Mutual Co-operative & Industrial Society, Ltd., 1 John Street, Doncaster. Envelopes endorsed "Pharmacist."

QUALIFIED Assistant wanted, outdoor, for Front Counter; busy working-class trade; no Sunday work; hours 8.30 to 8.30, Wednesday 1. State height, salary asked, photo, references, when disengaged. "Cardiff," 190/31, Office of this Paper.

QUALIFIED lady Dispenser required (outdoor) as Locum for four weeks, commencing May 1. State salary required and references. Drs. Peers and Townshend, Great Yarmouth.

QUALIFIED Manager wanted for Branch Pharmacy in Derbyshire; permanency for good man; first-class recent references necessary. Usual particulars of experience and recent testimonials to 191/60, Office of this Paper.

QUALIFIED Manager for mining village in West Riding; must be quick, reliable, and accustomed to Insurance work; outdoors; unmarried. Applications, with copies of testimonials, and stating salary required, to Chemist, c/o Agnes Road Post Office, Barnsley.

QUALIFIED Assistant wanted, immediately for the season with good Counter, Dispensing and Photographic experience. Send full particulars of experience and salary required (outdoors), with copies of recent testimonials and photo (to be returned). Bound, Chemist, Llandrindod Wells.

QUALIFIED Assistant for Dispensing Counter, with knowledge of Photography; outdoors. Full particulars and salary required in first letter. Makepeace, 28 Dacres Road, Forest Hill, London, S.E.

QUALIFIED Assistant, age 25 to 30; one accustomed to high-class business; first-class references essential. W. Malden & Co., Ltd., 205 Brompton Road, S.W.3.

QUALIFIED Manager required, one who is well up in Counter work, with good experience of Kodaks and Toilet articles; good references essential; permanency. State salary required, with photo if possible. All applicants replied to. Hudson, Chemist, Skegness.

QUALIFIED Chemist, male or female, wanted as Superintendent of small Drug department; easy position, light duties, comfortable home with the Principal in select seaside resort; reasonable salary offered to suitable person. Apply, stating salary required, to Lea, Mayreen, Swanage Road, Southend-on-Sea.

QUALIFIED Man, about 40 years of age, for good-class Counter and Dispensing business; London, S.E. 192/15, Office of this Paper.

QUALIFIED Locum wanted for month of June approx.; male; abstainer; one accustomed to Agricultural business preferred. State terms, vacant dates, experience, recent references, to "North Staffs," 192/57, Office of this Paper.

QUALIFIED Chemist required immediately; splendid opportunity for a young man to gain sound and varied experience. State age, salary required and when at liberty. "H. L.," 193/24, Office of this Paper.

QUALIFIED Assistant required immediately; Agricultural, Photographic, Dispensing Business; state age, salary, also last two testimonials.—Barley, Chemist, Thame, Oxon.

QUALIFIED gentleman required immediately for all-round country business with fair amount of Dispensing; must be energetic and not afraid of work; easy berth; moderate salary. Apply, with full particulars re age, salary, and references, to "Radix," 192/39, Office of this Paper.

SENIOR Assistant for quick business; with Photographic experience; qualified preferred. Apply, personally or by letter, to Burbins Drug Stores, 50, Broadway, Wimbledon, S.W.19. Telephone: 458 Wimbledon.

SMART qualified man for working up new branch; knowledge of Photography essential; living accommodation if desired; permanency, State salary and full particulars with photo in first letter. Victoria Drug Co., Ltd., Paignton, South Devon.

SUPERIOR young Pharmacist wanted, having had first-class Dispensing and high-class Counter experience; permanent and progressive position. Confidential application, if possible with photograph, "Director," Philip Harris & Co., Pharmacists, Birmingham.

TEMPORARY Assistant wanted; qualified; outdoors. Llewellyn & Co., Chemists, Ogmore Vale, Glamorgan.

UNQUALIFIED Assistant required; thorough experience Veterinary trade; age 30-45 if active; complete details in first letter; state salary; Welsh accent preferred. 188/30, Office of this Paper.

URGENTLY required an up-to-date unqualified Assistant, age about 30, for a Pharmacy in S.W. London; must be of gentlemanly appearance and accustomed to London trade. Apply, with full particulars, to 193/39, Office of this Paper.

WANTED, two capable Assistants; must be good Salesmen and Window-dressers, and have knowledge of Photography; men who have good prospects of shortly qualifying would afterwards have an opportunity of taking up lucrative positions as Managers. Apply to 43/394, Office of this Paper.

WANTED, June 2, experienced, unqualified Assistant, under 30; single; good Window-dresser; thorough knowledge of Photography, Dispensing, Counter; £4 weekly; interview. Hall, Chemist, Skegness, Lincolnshire.

WANTED, two young qualified men, age about 25, to train for Managerial positions; if keen and anxious to get on will be given a thorough grasp of business methods and ideas; only those who are prepared to put business first need apply; salary to commence £5 per week and commission. Apply to 43/393, Office of this Paper.

WANTED, unqualified male Assistant; single; smart, good Dispenser and Counterman; knowledge of Photography. Please state salary required, age, and references. Apply W. H. Jennings, Market Street, Hoylake, Cheshire.

WANTED, June 2, qualified man for small branch; Dispensing, Photography; good recent references essential; interview. Hall, Chemist, Skegness, Lincolnshire.

WANTED, immediately, unqualified young man of good appearance and address, used to high-class Dispensing and with knowledge of Photography preferred. Apply with references, stating age, height, experience and salary required (outdoors), to W. B. Douglas, 1 Victoria Parade, Torquay.

WANTED, immediately, unqualified Locom for about five or six weeks. M. W. Yeomans, 4 Silver Street, Kettering.

WANTED, a reliable unqualified male Assistant, age about 25 years, good Stock-keeper and Window-dresser, possessing a thorough knowledge of Dispensing and Photography, required for a brisk Retail business. Apply, stating usual particulars and wages required, along with copies of two recent testimonials, to Co-operative Society, Ltd., Crown Street, Hebden Bridge, not later than Thursday, May 1, 1924.

WANTED, smart, competent, unqualified Assistant; keen Salesman and Window-dresser; practical knowledge of Photographics; energetic; age 30 to 40. State salary and enclose photo and references to 43/397, Office of this Paper.

WANTED shortly, competent Assistant for good-class Retail and Dispensing business, with Optics and Photographics; permanency. Kindly state full details of previous experience, age, height, salary required (outdoor) and when disengaged, to D. T. Evans, Ltd., Chemists and Opticians, Margate.

YOUNG Junior wanted as an Improver; state age and salary required; outdoors. Apply, with reference, to Thomas, Chemist, Faversham, Kent.

YOUNG qualified Assistant for working-class district; N.H.I. and Counter work; character must bear strict investigation. State age, salary required, etc. Garton, Chemist, 78 Plough Road, S.W.11.

YOUNG lady required for D. & P. Department (small). Kindly reply, with full particulars as to experience and salary required, to F. W. Stedman, Chemist, Ashford, Kent.

WHOLESALE.

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ESSENTIAL OILS AND SYNTHETICS.—Large importers and merchants require capable Salesman of good education and refined speech, with practical experience of the trade and established connections amongst manufacturing perfumers and confectioners, soap makers and similar large consumers; position of trust with good prospects. Reply "Z. E. O." c/o Deacons, Leadenhall Street, E.C.3.

EXPERIENCED Assistant required by firm in the Midlands, with good knowledge of Surgical Appliances and Druggists' Sundries; age under 30; unmarried. State particulars, wages required, and references. 43/378, Office of this Paper.

LONDON Wholesale Druggists require efficient Representative, with established connection in the South and South-West Counties, covering Devon, Cornwall and Wales. Full particulars, stating remuneration expected, to 43/395, Office of this Paper.

SCOTLAND.—Representative wanted on part expenses and commission basis; Tablets and Packed Goods; substantial connection handed over. White Band Mfg. Co., Ltd., Croydon, Surrey.

OLIVE OIL.—Representatives required in London, Home Counties, South and South-West England, to call on Chemists, offering bottled or bulk Olive Oils. Advertisers are large importers of Olive Oils and sole British Agents for well-known Nice refiners; commission only. 43/398, Office of this Paper.

REPRESENTATIVE, young, required by firm of Wholesale Chemists, for business with Doctors and Chemists in and around Birmingham. Write, stating age, experience, and salary required. 193/18, Office of this Paper.

REPRESENTATIVES wanted to carry three good selling lines, on excellent commission; demand already established; please state ground covered and lines carried; all likely men will be interviewed. 189/21, Office of this Paper.

SOLE Agent for Continental manufacturers of very highest class Perfumery, Soaps, Powders, Creams, etc., requires one or two Representatives who can place with highest class buyers in Great Britain and Ireland on commission basis. Particulars, lines already carried and territory covered, to 189/22, Office of this Paper.

THE services of a young man of presentable address, and who has had good Office experience in the Export Drug Trade, are required by a London Wholesale House; one with an aptitude for calling upon customers and cultivating new business is sought; London area only. Send full particulars, age, and salary required to 41/322, Office of this Paper.

[COLONIAL, INDIAN AND FOREIGN.]

INDIA, CEYLON AND BURMA.—Export Druggists, whose name and trade-mark are well known in the East, require share in services of established Travelling Representative visiting ports, towns and bazaars; good opportunity for a man possessing knowledge of the Drug Trade and familiar with the native and European buyers; remuneration by fixed contribution to expenses and commission, with a guaranteed minimum commission. Write, with fullest particulars, to 43/399, Office of this Paper.

MALAYA.—Qualified, single, young Pharmacist for British firm; 4 years' agreement; passage paid; total abstainer; salary: first 300, second and third 325, fourth year 350 dollars month; splendid opening for steady, energetic, capable man. Apply, 190/18, Office of this Paper.

SITUATIONS WANTED.

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A.A.A.—ASSISTANT, unqualified, 28, seeks permanent berth in Lancs or Yorks; experienced in all branches; good references. Apply 193/10, Office of this Paper.

A.A.—SMART, qualified, 25, seeks position; good Salesman; all-round experience. Note (one not afraid of work); disengaged; salary £4. 51 Queen's Road, Wimbledon, S.W.

A PART-TIME situation required, Student, with 8 years' sound experience and references. P.C.B. 62/29, Office of this Paper.

A QUALIFIED Manager, 20 years' experience, desires good berth; keen, reliable, energetic; disengaged. Davies, 9 Waldean Avenue, Fulham, S.W.6.

A DVERTISER seeks position as Manager of up-to-date Pharmacy; fully qualified; middle-aged; exceptional experience; total abstainer; every reference and guarantee which may be required available. "Codex," 10 Westwood Park, S.E.23.

A S Locom; disengaged; moderate terms; excellent experience and references; energetic, reliable. "Chemist," 5 Wickham Road, S.E.4.

A SSISTANT, 23, unqualified, experienced Dispenser, 7 years' good all-round knowledge, desires post with Chemist; one-man business preferred. Please state salary. "Aspirin," 28 Second Avenue, Fitzwilliam, near Pontefract.

A SSISTANT, age 22; referred Materia Medica; any capacity; London preferred. "Catechu," 32 Pownall Road, Lillie Road, Fulham, S.W.6.

A SSISTANT desires change; age 34; well up Retail, Dispensing, Photographic; first-class Counterman and Window-dresser; permanency; capable of taking charge. "Vim," 193/12, Office of this Paper.

A SSISTANT Manager; capable Salesman; thorough varied experience; all branches; temporary, permanency; disengaged. "Chemicus," 162 Lloyd Street, Greenheys, Manchester.

A SSISTANT; reliable Dispenser; Counter, Photography; Part I minor; 5 years' experience; London, S.W., preferred. P.C.B., 62/25, Office of this Paper.

A SSISTANT, Locom or Manager, view to purchase or otherwise; sound business man; all branches; Dentist. Field, Vine Cottage, Cranbrook.

A SSISTANT; Dispenser, Counterman, Photographer and Window-dresser; distance no object. "Velox," 183 Woodboro' Road, Nottingham.

SSISTANT; 30; unqualified; all-round experience; Counter, W. Dressing, Dispensing; quick, keen. "L." 898 Romford ad, Manor Park, E.12.

URTON MIDDLETON.—M.P.S., Pharmacists' Locum; town or country; dates still open: May, a fortnight; all June 1 August; Sept., a fortnight. Address, 20 Merton Avenue, Iswick, W.4.

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ISENGAGED.—Permanent or temporary; experienced; unqualified. "Radix," Hawthorn Villa, Cusop, Hay, Hereford.

ISENGAGED May 19; qualified, 23, desires permanency in high-class business; good London and country experience. Sunley, Sunfield, Minehead, Somerset.

ISPENSER (lady), qualified, experienced Book-Keeping, Surgical Dressings, etc., desires post. A. M. Walkden, Alexandra Road, Reading.

ISPENSER, Counter and Photographic Salesman; disengaged. Shiels, 28 Newington Butts, S.E.

ISPENSER, qualified, experienced, wishes post with Doctor or Institution. Apply Miss Knox, 131 Alexandra Road, John's Wood.

ISPENSER, Book-keeper, Hall qualification, desires work; permanent; Locum, part-time (latter in or near Croydon); references. Miss Matthews, 114 St. James' Road, Croydon.

NGAGEMENT.—Dispensing, first-class; reliable. "H. S.," 44 Nightingale Lane, S.W.

XPERIENCED Pharmacist, disengaged, desires engagements as Locum, or having capital, position as Manager, with or to succession. "Aconite," c/o Cripps & Son, Manufacturers Chemists, Davygor Road, Brighton.

REE.—Permanency or Holiday Locum; experienced male Pharmacist; moderate salary. "Chemist," 68 Grosvenor ad, Hanwell, W.7.

IMMEDIATELY, Locum or permanency; well up, with excellent recommendation; unqualified. "E.," 131 Mount View ad, N.4.

ADY Dispenser (Hall) requires post, Doctor, Hospital or Institution; nearly 3 years' experience; South of England preferred; permanent or temporary. Allanson, 5 Silverlands Road, Leonards-on-Sea, Sussex.

ADY Dispenser, experienced, seeks post Doctor, Chemist; Typing and Book-Keeping. 188/21, Office of this Paper.

ADY Dispenser, Hall certificate, requires post; would take small salary to gain more experience. Jacobs, Stretham, Cambs.

ADY Assistant, unqualified, desires post with Chemist; seven and half years' experience; Counter and Dispensing-dress, Williams, 98 Severn Road, Weston-super-Mare.

ADY Dispenser, Minor qualification, desires post; London; Hospital, Doctor, Retail; temporary or permanent; disengaged. 19 Netherwood Road, W.14.

ADY Dispenser, Hall certificate, seeks post with Doctor, near South Coast; or temporary work anywhere; good experience; nursing and medical book-keeping. K. M. Ashdown, London Lodge, Sevenoaks, Kent.

ADY Assistant requires post with Chemist; 8 years' experience; good references. Keys, 32 Compton Terrace, Highbury.

ADY Assistant, unqualified, with 9 years' experience in Dispensing, Counter work, and Photographic trade, seeks post in Birmingham. 193/20, Office of this Paper.

OCUM or permanency; first-class experience in Dispensing, Counter, Photography, Stock and Prescribing. Harries, 61 Arlington Oval, S.E.11.

OCUM; qualified; Photographic experience; free April 28; North or Midlands preferred. "Pharmacist," 4 Cobden Street, Albert Avenue, Hull.

OCUM, 26; qualified; free till June 1; June 15 to July 26. Wilson, 43 Marquis Road, Finsbury Park, London.

OCUM Tenens; disengaged; qualified; speaking French; best experience; London or country. "Pharmacist," 15 Hestercombe Avenue, Fulham.

OCUM; qualified; first-class references; disengaged up to June 10 inclusive. "G.," Messrs. Southall Bros. & Barclay, Birmingharn.

MANAGER, qualified, desires permanency; provinces or near coast; excellent references; tall; Photography; with house desirable; eventual succession entertained. 192/6, Office of this Paper.

M.P.S.—MANAGER, 6 years present berth, age 32, good all-round energetic man, up-to-date business methods, salesmanship, used to quick, high-class City business, requires position with view to succession; house attached preferred. 188/23, Office of this Paper.

M.P.S.—RELIABLE and experienced Dispenser; excellent references; disengaged. Neale, 13 London Road, High Wycombe.

M.P.S., SMART, active, with long experience as Manager, requires similar post in London or Home Counties; good organiser and Dispenser; general knowledge of Photo.; careful buyer and accustomed to control. "Pharmacist," 204 Stapleton Hall Road, Stroud Green, N.4.

M.R. J. C. JOHNSON, M.P.S., is prepared to book advance Locum engagements. Will Pharmacists likely to require services please communicate to 13 Hillaries Road, Erdington, Birmingham?

PART-TIME Assistant, 36; Continental experience; good address; efficient in every department (about 30 hours weekly). P.C.B. 62/36, Office of this Paper.

PHARMACIST, 2½ years' own increasing business, Yorks, has sold same, and desires holiday Locum posts in or near London, Whitsun onwards; prepared to consider, at end of season, purchase or Partnership with view to succession; London only; age 30; tall; single; abstainer. "Chemist," 43 Durham Road, Sheffield.

PHARMACIST (L.P.S.I.), at present employed in leading Irish Pharmacy, desires position in a high-class English Pharmacy; South of England preferred; age 26; good appearance; excellent references. 189/12, Office of this Paper.

QUALIFIED Manager; tall; good appearance; long experience as Manager; capable of producing results; good Salesman, expert Window-dresser; excellent references. 193/21, Office of this Paper.

QUALIFIED; 25; good Retail, Counter, Dispensing, Photographic, and Agricultural experience; excellent references; disengaged; home or abroad. Cyril Dowling, 32 High Street, Kington, Herefordshire.

QUALIFIED; desires temporary position during summer; coast town preferred; young, tall; good all-round London experience Photography, Dispensing. 188/20, Office of this Paper.

QUALIFIED, 29, West-End, City and provincial experience, desires permanency; London or S.E. district preferred. "Chemist," 4 Kingswood Place, Lee, S.E.13.

QUALIFIED, 22, well recommended, desires Locum work for June, July and September; 8 years' Dispensing and Counter experience. Bates, Pym Street, Nottingham.

QUALIFIED experienced Dispenser, Locum, now booking dates; London preferred; entire charge. "Pharmacist," 1 Abbeville Road, London, S.W.4.

QUALIFIED lady, disengaged, desires position in good-class business where Counter experience could be gained. Replies "W. N.," 7 Sumburgh Road, S.W.

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RECENTLY-retired Chemist (32 years M.P.S.) desires post as Locum or Cover; wide London and provincial experience; highest trade references. P.C.B., 62/27, Office of this Paper.

UNQUALIFIED; age 35; good all-round; able take charge; permanency or Locum. Apply Andrew, 11 Churchill Road, Boscombe.

UNQUALIFIED, capable, reliable, good references, all-round experience, desires post shortly; near London preferred, not essential. Write 192/40, Office of this Paper.

UNQUALIFIED; Dispensing, Counter, Registered Dentist; no stores; single; male; Dental work by arrangement; Midlands or North preferred. "Barium," 192/33, Office of this Paper.

YOUNG lady, 20, tall, requires situation in Retail Chemist; Counter, Packing, etc.; London preferred. Apply "Merton," 272 Merton Road, Wandsworth, S.W.18.

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2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

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AGE 36, energetic, ambitious, 22 years' experience in Wholesale, seeks beginning as Representative or any progressive capacity. "K.," 191/35, Office of this Paper.

ASSISTANT Chemist, 23; 3 years' technical training, London University; B.Sc. (Chemistry); willing to take any post in keeping with qualifications. M.L. 5673/23, Office of this Paper.

CHEMISTS' Traveller, 26; 18 months' travelling experience Wholesale Chemists' and Druggists' Sundries; connection London, Manchester, and Liverpool; willing to take any post. M.L. 7843/21, Office of this Paper.

DEVON AND CORNWALL.—Traveller, qualified Chemist, experienced Salesman, with old-standing connection, mainly with Chemists, wishes to represent two or three houses upon commission and part expenses, or one house upon salary, commission and expenses; excellent record and references. 192/14, Office of this Paper.

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EX-OFFICER, A.I.C., 43; married; educated Public School; good knowledge French; one year's experience Assistant to Analytical Chemist, eight years Manufacturing Chemist; willing to take any post. M.L. 5977/22, Office of this Paper.

EX-OFFICER, 30, single, educated Public School, 3 years University, Intermediate Physics and Chemistry, some knowledge French, 4 years' Laboratory experience, good knowledge Electrical Engineering, desires post, preferably in Chemical Works or Oil Refinery. M.L. 34284, Office of this Paper.

EX-OFFICER, 26, 5 years' Academic training, Inter. B.Sc. (Chemistry), some experience in Oils and Sewage, desires post as Assistant Chemist, Commercial Laboratory. M.L. 12054, Office of this Paper.

EXPERT Perfumer; 30 years' experience with Soap Makers and West-End Perfumers; capable of producing every Toilet Speciality from own formulæ; will only accept position giving ample scope; first-class references. Apply P.C.B. 61/35, Office of this Paper.

FORD Driver, age 34, seeks situation; good knowledge of London and suburbs; 8 years in the trade. Write 193/36, Office of this Paper.

GENTLEMAN, having comprehensive experience in the manufacture of Galenicals, Perfumery and Toilet Soaps, has a few hours available each week; would consider a part-time appointment in London. Write "K. Z.," Box 1240, Sells Advertising Offices, Fleet Street, E.C.4.

REPRESENTATIVE, own office in City, open for good selling lines; London and suburbs; sound connection chemists and doctors. "Statim," 191/1, Office of this Paper.

REPRESENTATIVE, good appearance, address; 20 years' retail and traveller's experience; commission, expenses. "Chemicus," 162 Lloyd Street, Greenhys, Manchester.

TRAVELLER, Pharmacist, well known Kent, Surrey, Sussex, Essex and E. Hants, desires good commission lines; knows Perfumery; speaks French and Italian; wholesale and retail experience. Eacott, Tynham, Kent.

TRAVELLER, 14 years' experience, covering Lancs, Yorks. and N.E. Coast, desires to represent packed goods house. Apply, 190/36, Office of this Paper.

[COLONIAL, INDIAN AND FOREIGN.]

YOUNG French Assistant requires position in a Continental Pharmacy; 12 years' English and French Dispensing; age 28 years; good experience with Photography and Window-dressing; excellent references. Write René Guerif, Villa Gabrielle, Avenue Delphine, Nice, France.

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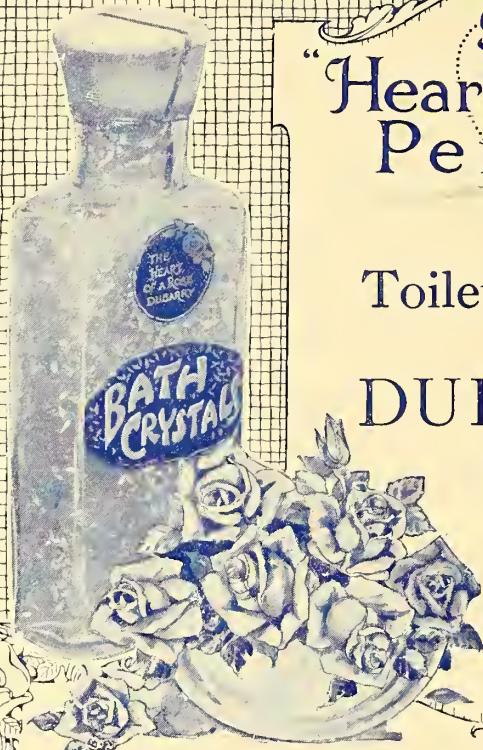
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